

4089

Ser Lys Glu Gln Val Ala Asn Ser Ala Phe Val Glu Arg Val Arg Lys
 115 120 125
 Arg Gly Phe Glu Val Val Tyr Met Thr Glu Pro Ile Asp Glu Tyr Cys
 130 135 140
 Val Gln Gln Leu Lys Glu Phe Asp Gly Lys Ser Leu Val Ser Val Thr
 145 150 155 160
 Lys Glu Gly Leu Glu Leu Pro Glu Asp Glu Glu Lys Lys Lys Met
 165 170 175
 Glu Glu Ser Lys Ala Lys Phe Glu Asn Leu Cys Lys Leu Met Lys Glu
 180 185 190
 Ile Leu Asp Lys Lys Val Glu Lys Val Thr Ile Ser Asn Arg Leu Val
 195 200 205
 Ser Ser Pro Cys Cys Ile Val Thr Ser Thr Tyr Gly Trp Thr Ala Asn
 210 215 220
 Met Glu Arg Ile Met Lys Ala Gln Ala Leu Arg Asp Asn Ser Thr Met
 225 230 235 240
 Gly Tyr Met Met Ala Lys Lys His Leu Glu Ile Asn Pro Asp His Pro
 245 250 255
 Ile Val Glu Thr Leu Arg Gln Lys Ala Glu Ala Asp Lys Asn Asp Lys
 260 265 270
 Ala Val Lys Asp Leu Val Val Leu Leu Phe Glu Thr Ala Leu Leu Ser
 275 280 285
 Ser Gly Phe Ser Leu Glu Asp Pro Gln Thr His Ser Asn Arg Ile Tyr
 290 295 300
 Arg Met Ile Lys Leu Gly Leu Gly Ile Asp Glu Asp Glu Val Ala Ala
 305 310 315 320
 Glu Glu Pro Asn Ala Ala Val Pro Asp Glu Ile Pro Pro Leu Glu Gly
 325 330 335
 Asp Glu Asp Ala Ser Arg Met Glu Glu Val Asp
 340 345

<210> 4522

<211> 81

<212> PRT

<213> Homo sapiens

4090

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4522

Leu	Phe	Leu	Xaa	Gly	Gly	Lys	Asp	Pro	Leu	Val	Pro	Xaa	Xaa	Lys	Gln
1				5					10					15	

Leu	Gly	Lys	Asp	Leu	Ala	Leu	Tyr	Ile	Tyr	Trp	Met	Val	Leu	Met	Ala
			20					25					30		

Lys	Leu	Leu	Asn	Ser	Leu	Ile	Ser	His	Val	Ser	Ala	Ser	Arg	Ile	Ser
			35					40					45		

Asp	Arg	Asn	Glu	Thr	His	Leu	Lys	Met	Arg	Leu	Thr	Trp	Arg	Phe	Phe
			50				55				60				

Phe	Pro	Asn	Leu	Ser	Tyr	Leu	Asn	Trp	Lys	Asn	Asn	Gln	Leu	Ile	Leu
65					70					75					80

Cys

<210> 4523

<211> 56

<212> PRT

<213> Homo sapiens

<400> 4523

Thr	Gln	Val	Met	Gly	Leu	Cys	Cys	Thr	Asp	Tyr	Phe	Val	Val	His	Val
1				5					10					15	

Leu	Ser	Leu	Val	Pro	Asn	Ser	Tyr	Phe	Phe	Cys	Ser	Ser	Pro	Ser	Ser
			20					25					30		

Tyr	Pro	Leu	Pro	Ser	Ser	Trp	Pro	Asn	Val	Tyr	Cys	Ser	Leu	Leu	Cys
			35					40				45			

4091

Asn Asn His Ser Asn Leu Cys Phe
 50 55

<210> 4524

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4524

Gly Ala Gly Ala Ala Glu Pro Gly Pro Ala Ala Glu Leu Glu Ala Leu
 1 5 10 15

Leu Ser Ser Lys Asp Asp Val Gly Lys Ser Val His Glu Leu Glu Arg
 20 25 30

Ala Cys Arg Val Ala Glu Gln Ala Ala Asn Asp Leu Arg Ala Gln Val
 35 40 45

Thr Glu Leu Glu Asp Glu Leu Thr Ala Ala Glu Asp Ala Lys Leu Arg
 50 55 60

Leu Glu Val Thr Val Gln Ala Leu Lys Thr Gln His Glu Arg Asp Leu
 65 70 75 80

Gln Gly Arg Asp Glu Ala Gly Glu Glu Arg Arg Arg Gln Leu Ala Lys
 85 90 95

Gln Leu Arg Asp Ala Glu Val Glu Arg Asp Glu Glu Arg Lys Gln Arg
 100 105 110

Thr Leu Ala Val Ala Ala Arg Lys Lys Leu Glu Gly Glu Leu Glu Glu
 115 120 125

4092

Leu Lys Ala Gln Met Ala Ser Ala Gly Gln Gly Lys Glu Glu Ala Val
 130 135 140
 Lys Gln Leu Arg Lys Met Gln Ala Gln Met Lys Glu Leu Trp Arg Glu
 145 150 155 160
 Val Glu Glu Thr Arg Thr Phe Arg Glu Glu Ile Phe Ser Gln Asn Arg
 165 170 175
 Glu Ser Glu Lys Arg Leu Lys Gly Leu Lys Leu Xaa Cys Cys Xaa Cys
 180 185 190

Xaa

<210> 4525

<211> 218

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (190)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (207)

<223> Xaa equals any of the naturally occurring L-amino acids

4093

<400> 4525

Ala	Ser	Ala	Ser	Ile	Cys	Ser	Gly	Ile	Lys	Tyr	Ala	Phe	Gln	Val	Ile
1				5					10					15	
Gly	Glu	Leu	His	Ser	Gln	Leu	Asp	Gly	Ser	Glu	Val	Leu	Leu	Leu	Thr
			20					25					30		
Asp	Gly	Glu	Asp	Asn	Thr	Ala	Ser	Ser	Cys	Ile	Asp	Glu	Val	Lys	Gln
		35					40					45			
Ser	Gly	Ala	Ile	Val	His	Phe	Ile	Ala	Leu	Gly	Arg	Ala	Ala	Asp	Glu
		50				55					60				
Ala	Val	Ile	Glu	Met	Ser	Lys	Ile	Thr	Gly	Gly	Ser	His	Phe	Tyr	Val
65					70					75					80
Ser	Asp	Glu	Ala	Gln	Asn	Asn	Gly	Leu	Ile	Asp	Ala	Phe	Gly	Ala	Xaa
				85					90					95	
Thr	Ser	Gly	Asn	Thr	Asp	Leu	Ser	Xaa	Lys	Ser	Leu	Gln	Leu	Glu	Ser
			100					105					110		
Lys	Gly	Leu	Thr	Leu	Asn	Ser	Asn	Ala	Trp	Met	Asn	Asp	Thr	Val	Ile
		115					120					125			
Ile	Asp	Ser	Thr	Val	Gly	Lys	Asp	Thr	Phe	Phe	Leu	Ile	Thr	Trp	Asn
	130					135					140				
Ser	Leu	Pro	Pro	Ser	Ile	Ser	Leu	Trp	Asp	Pro	Ser	Gly	Thr	Ile	Met
145					150					155					160
Glu	Asn	Phe	Thr	Val	Asp	Ala	Thr	Ser	Lys	Met	Ala	Tyr	Leu	Ser	Ile
				165					170					175	
Pro	Gly	Thr	Xaa	Lys	Val	Gly	Thr	Trp	Ala	Tyr	Asn	Leu	Xaa	Ala	Lys
			180					185					190		
Ala	Xaa	Pro	Glu	Thr	Leu	Thr	Ile	Thr	Val	Thr	Ser	Arg	Ala	Xaa	Lys
		195					200					205			
Phe	Phe	Cys	Ala	Ser	Asn	His	Ser	Glu	Cys						
	210					215									

<210> 4526

<211> 76

<212> PRT

<213> Homo sapiens

4094

<400> 4526

Gly Ala Phe Leu Met Ala Thr Ala Ala Trp Leu Thr Thr Val Phe Lys
 1 5 10 15
 Gln Pro Gly Cys Ala Pro Glu Leu His Trp Ala Ser Phe His Asn Tyr
 20 25 30
 Gly Ser Val Ser Ile Thr Leu Ile Ser Glu Cys Gly Arg His Leu Asn
 35 40 45
 Lys Asn His Glu Ser His Phe Thr Asn Gln Asp Thr Gln Asp Val Arg
 50 55 60
 Leu Ser Asp Leu Ser Tyr Gln Gly His Lys Ala Ser
 65 70 75

<210> 4527

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4527

Cys Phe Ser Ser Ser Gly Phe Thr Cys His Asp His Gly Ala Thr Val
 1 5 10 15
 Leu Gln Tyr Ala Pro Lys Gln Gln Leu Leu Ile Ser Gly Gly Arg Lys
 20 25 30
 Arg His Val Cys Ile Phe Asp Ile Xaa Gln Arg Gln Leu Ile His Thr
 35 40 45
 Phe Gln Ala His Asp Ser Ala Ile Lys Ala Leu Ala Leu Asp Pro Tyr
 50 55 60
 Glu Glu Tyr Phe Thr Thr Gly Ser Ala Glu Gly Asn Ile Lys Val Trp
 65 70 75 80
 Arg Leu Thr Gly His Gly Leu Ile His Ser Phe Lys Ser Glu His Ala
 85 90 95
 Lys Gln Ser Ile Phe Arg Asn Ile Gly Ala Gly Val Met Gln Ile Asp
 100 105 110
 Ile Ile Gln Gly Asn Arg Leu Phe Ser Cys Gly Ala Asp Gly Thr Leu

4095

115 120 125
 Lys Thr Arg Val Leu Pro Asn Ala Phe Asn Ile Pro Asn Arg Ile Leu
 130 135 140

 Asp Ile Leu
 145

 <210> 4528
 <211> 423
 <212> PRT
 <213> Homo sapiens

 <400> 4528
 Pro Glu Asn Asn Gln Ile Glu Thr Met Glu Asp Leu Cys Val Ala Asn
 1 5 10 15

 Thr Leu Phe Ala Leu Asn Leu Phe Lys His Leu Ala Lys Ala Ser Pro
 20 25 30

 Thr Gln Asn Leu Phe Leu Ser Pro Trp Ser Ile Ser Ser Thr Met Ala
 35 40 45

 Met Val Tyr Met Gly Ser Arg Gly Ser Thr Glu Asp Gln Met Ala Lys
 50 55 60

 Val Leu Gln Phe Asn Glu Val Gly Ala Asn Ala Val Thr Pro Met Thr
 65 70 75 80

 Pro Glu Asn Phe Thr Ser Cys Gly Phe Met Gln Gln Ile Gln Lys Gly
 85 90 95

 Ser Tyr Pro Asp Ala Ile Leu Gln Ala Gln Ala Ala Asp Lys Ile His
 100 105 110

 Ser Ser Phe Arg Ser Leu Ser Ser Ala Ile Asn Ala Ser Thr Gly Asn
 115 120 125

 Tyr Leu Leu Glu Ser Val Asn Lys Leu Phe Gly Glu Lys Ser Ala Ser
 130 135 140

 Phe Arg Glu Glu Tyr Ile Arg Leu Cys Gln Lys Tyr Tyr Ser Ser Glu
 145 150 155 160

 Pro Gln Ala Val Asp Phe Leu Glu Cys Ala Glu Glu Ala Arg Lys Lys
 165 170 175

 Ile Asn Ser Trp Val Lys Thr Gln Thr Lys Gly Lys Ile Pro Asn Leu
 180 185 190

4096

Leu Pro Glu Gly Ser Val Asp Gly Asp Thr Arg Met Val Leu Val Asn
 195 200 205
 Ala Val Tyr Phe Lys Gly Lys Trp Lys Thr Pro Phe Glu Lys Lys Leu
 210 215 220
 Asn Gly Leu Tyr Pro Phe Arg Val Asn Ser Ala Gln Arg Thr Pro Val
 225 230 235 240
 Gln Met Met Tyr Leu Arg Glu Lys Leu Asn Ile Gly Tyr Ile Glu Asp
 245 250 255
 Leu Lys Ala Gln Ile Leu Glu Leu Pro Tyr Ala Gly Asp Val Ser Met
 260 265 270
 Phe Leu Leu Leu Pro Asp Glu Ile Ala Asp Val Ser Thr Gly Leu Glu
 275 280 285
 Leu Leu Glu Ser Glu Ile Thr Tyr Asp Lys Leu Asn Lys Trp Thr Ser
 290 295 300
 Lys Asp Lys Met Ala Glu Asp Glu Val Glu Val Tyr Ile Pro Gln Phe
 305 310 315 320
 Lys Leu Glu Glu His Tyr Glu Leu Arg Ser Ile Leu Arg Ser Met Gly
 325 330 335
 Met Glu Asp Ala Phe Asn Lys Gly Arg Ala Asn Phe Ser Gly Met Ser
 340 345 350
 Glu Arg Asn Asp Leu Phe Leu Ser Glu Val Phe His Gln Ala Met Val
 355 360 365
 Asp Val Asn Glu Glu Gly Thr Glu Ala Ala Ala Gly Thr Gly Gly Val
 370 375 380
 Met Thr Gly Arg Thr Gly His Gly Gly Pro Gln Phe Val Ala Asp His
 385 390 395 400
 Pro Phe Leu Phe Leu Ile Met His Lys Ile Thr Asn Cys Ile Leu Phe
 405 410 415
 Phe Gly Arg Phe Ser Ser Pro
 420

<210> 4529

<211> 86

<212> PRT

4097

<213> Homo sapiens

<400> 4529

```

Thr Met Glu Gly Cys Arg Pro Thr Ser Leu Ile Thr Ile Glu Ile His
 1             5             10             15

Val Thr Ile Glu Pro Trp Lys Cys Ser Leu Ser Lys Leu Arg Cys Ala
          20             25             30

Val Ser Ile Lys Tyr Ile Pro Asp Phe Lys Asp Val Pro Lys Asn Val
          35             40             45

Asn Tyr Leu Asn Phe Tyr Ile Gly Glu Ile Asn Met Ser Trp Tyr Ser
          50             55             60

Gly Leu Asn Lys Thr Ile Leu Ala Phe Leu Ser Leu Phe Phe Cys Lys
 65             70             75             80

Lys Ile Lys Asn Cys Thr
          85

```

<210> 4530

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4530

```

Gly Leu Arg Arg Leu Asp Ser Ala Ser Gly Thr Val Tyr Thr Ala Met
 1             5             10             15

Asp Val Ala Thr Gly Gln Glu Val Ala Ile Lys Gln Met Asn Leu Gln
          20             25             30

Gln Gln Pro Lys Lys Glu Leu Ile Ile Asn Glu Ile Leu Val Met Arg
          35             40             45

Glu Asn Lys Asn Pro Asn Ile Val Asn Tyr Leu Asp Ser Tyr Leu Val
          50             55             60

Gly Asp Glu Leu Trp Val Val Met Glu Tyr Leu Ala Gly Gly Ser Leu
 65             70             75             80

Thr Asp Val Val Thr Glu Thr Cys Met Asp Glu Gly Gln Ile Ala Ala
          85             90             95

```

4098

Val Cys Arg Glu Xaa Leu Gln Ala Leu Glu Phe Leu His Ser Asn Gln
 100 105 110
 Ile Thr Pro Glu Gln Ser Lys Arg Ser Thr Met Val Gly Thr Pro Tyr
 115 120 125
 Trp Met Ala Pro Glu Val Val Thr Arg Lys Ala Tyr Gly Pro Lys Val
 130 135 140
 Asp Ile Trp Ser Leu Gly Ile Met Ala Ile Glu Met Ile Glu Gly Glu
 145 150 155 160
 Pro Pro Tyr Leu Asn Glu Asn Pro Leu Arg Ala Leu Tyr Leu Ile Ala
 165 170 175
 Thr Asn Gly Thr Pro Glu Leu Gln Asn Pro Glu Lys Leu Ser Ala Ile
 180 185 190
 Phe Arg Asp Phe Leu Asn Arg Cys Leu Glu Met Asp Val Glu Lys Arg
 195 200 205
 Gly Ser Ala Lys Glu Leu Leu Gln His Gln Phe Leu Lys Ile Ala Lys
 210 215 220
 Pro Leu Ser Ser Leu Thr Pro Leu Ile Ala Ala Ala Lys Glu Ala Thr
 225 230 235 240
 Lys Asn Asn His

<210> 4531

<211> 624

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (192)

4099

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4531

His	Xaa	His	Ser	Phe	Ser	Ser	Gly	Tyr	Val	Glu	Met	Glu	Phe	Glu	Phe	1	5	10	15
Asp	Arg	Leu	Arg	Ala	Phe	Gln	Ala	Met	Gln	Val	His	Cys	Asn	Asn	Met	20	25	30	
His	Thr	Leu	Gly	Ala	Arg	Leu	Pro	Gly	Gly	Val	Glu	Cys	Arg	Phe	Arg	35	40	45	
Arg	Gly	Pro	Ala	Met	Ala	Trp	Glu	Gly	Glu	Pro	Met	Arg	His	Asn	Leu	50	55	60	
Gly	Gly	Asn	Leu	Gly	Asp	Pro	Arg	Ala	Arg	Ala	Val	Ser	Val	Pro	Leu	65	70	75	80
Gly	Gly	Arg	Val	Ala	Arg	Phe	Leu	Gln	Cys	Arg	Phe	Leu	Phe	Ala	Gly	85	90	95	
Pro	Trp	Leu	Leu	Phe	Ser	Glu	Ile	Ser	Phe	Ile	Ser	Asp	Val	Val	Asn	100	105	110	
Asn	Ser	Ser	Pro	Ala	Leu	Gly	Gly	Thr	Phe	Pro	Pro	Ala	Pro	Trp	Trp	115	120	125	
Pro	Pro	Gly	Pro	Pro	Pro	Thr	Asn	Phe	Ser	Ser	Leu	Glu	Leu	Glu	Pro	130	135	140	
Arg	Gly	Gln	Gln	Pro	Val	Ala	Lys	Ala	Glu	Gly	Ser	Pro	Thr	Ala	Ile	145	150	155	160
Leu	Ile	Gly	Cys	Leu	Val	Ala	Ile	Ile	Leu	Leu	Leu	Leu	Leu	Ile	Ile	165	170	175	
Ala	Leu	Met	Leu	Trp	Arg	Leu	His	Trp	Arg	Arg	Xaa	Leu	Ser	Lys	Xaa	180	185	190	
Glu	Arg	Arg	Val	Leu	Glu	Glu	Glu	Leu	Thr	Val	His	Leu	Ser	Val	Pro	195	200	205	
Gly	Asp	Thr	Ile	Leu	Ile	Asn	Asn	Arg	Pro	Gly	Pro	Arg	Glu	Pro	Pro	210	215	220	
Pro	Tyr	Gln	Glu	Pro	Arg	Pro	Arg	Gly	Asn	Pro	Pro	His	Ser	Ala	Pro	225	230	235	240
Cys	Val	Pro	Asn	Gly	Ser	Ala	Leu	Leu	Leu	Ser	Asn	Pro	Ala	Tyr	Arg	245	250	255	

4100

Leu Leu Leu Ala Thr Tyr Ala Arg Pro Pro Arg Gly Pro Gly Pro Pro
 260 265 270
 Thr Pro Ala Trp Ala Lys Pro Thr Asn Thr Gln Ala Tyr Ser Gly Asp
 275 280 285
 Tyr Met Glu Pro Glu Lys Pro Gly Ala Pro Leu Leu Pro Pro Pro Pro
 290 295 300
 Gln Asn Ser Val Pro His Tyr Ala Glu Ala Asp Ile Val Thr Leu Gln
 305 310 315 320
 Gly Val Thr Gly Gly Asn Thr Tyr Ala Val Pro Ala Leu Pro Pro Gly
 325 330 335
 Ala Val Gly Asp Gly Pro Pro Arg Val Asp Phe Pro Arg Ser Arg Leu
 340 345 350
 Arg Phe Lys Glu Lys Leu Gly Glu Gly Gln Phe Gly Glu Val His Leu
 355 360 365
 Cys Glu Val Asp Ser Pro Gln Asp Leu Val Ser Leu Asp Phe Pro Leu
 370 375 380
 Asn Val Arg Lys Gly His Pro Leu Leu Val Ala Val Lys Ile Leu Arg
 385 390 395 400
 Pro Asp Ala Thr Lys Asn Ala Arg Asn Asp Phe Leu Lys Glu Val Lys
 405 410 415
 Ile Met Ser Arg Leu Lys Asp Pro Asn Ile Ile Arg Leu Leu Gly Val
 420 425 430
 Cys Val Gln Asp Asp Pro Leu Cys Met Ile Thr Asp Tyr Met Glu Asn
 435 440 445
 Gly Asp Leu Asn Gln Phe Leu Ser Ala His Gln Leu Glu Asp Lys Ala
 450 455 460
 Ala Glu Gly Ala Pro Gly Asp Gly Gln Ala Ala Gln Gly Pro Thr Ile
 465 470 475 480
 Ser Tyr Pro Met Leu Leu His Val Ala Ala Gln Ile Ala Ser Gly Met
 485 490 495
 Arg Tyr Leu Ala Thr Leu Asn Phe Val His Arg Asp Leu Ala Thr Arg
 500 505 510
 Asn Cys Leu Val Gly Glu Asn Phe Thr Ile Lys Ile Ala Asp Phe Gly
 515 520 525

4101

Met Ser Arg Asn Leu Tyr Ala Gly Asp Tyr Tyr Arg Val Gln Gly Arg
 530 535 540

Ala Val Leu Pro Ile Arg Trp Met Ala Trp Glu Cys Ile Leu Met Gly
 545 550 555 560

Lys Phe Thr Thr Ala Ser Asp Val Trp Ala Phe Gly Val Thr Leu Trp
 565 570 575

Glu Val Leu Met Leu Cys Arg Ala Gln Pro Phe Gly Gln Leu Thr Asp
 580 585 590

Glu Gln Val Ile Glu Asn Ala Gly Glu Phe Phe Arg Asp Gln Gly Arg
 595 600 605

Gln Val Tyr Leu Ser Arg Pro Pro Ala Cys Pro Gln Ala Tyr Met Ser
 610 615 620

<210> 4532

<211> 202

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (201)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4532

Xaa Gln Arg Trp Gly Gly Met Glu Ala Thr Ala Arg Lys Pro Gly Gln
 1 5 10 15

Gln Trp Arg Ser Ser Val Ser Pro Ser Ser Gly Leu Glu Pro Ala Glu
 20 25 30

Thr Ser Ala Gly Val Ser Ser Gln Gly Arg Trp Val Cys Gly Val Ser
 35 40 45

Arg Gly Ala Val Pro Ala Arg Val Lys Arg Lys Leu Pro Arg Val Leu
 50 55 60

4102

Cys Thr Pro Thr Arg Arg Arg Pro Ser Pro Arg Gly Pro Ser Gln Pro
 65 70 75 80
 Asp Ala Arg Val Leu Cys Val Ser Asn Thr Arg Ser Val Pro Ala Pro
 85 90 95
 Arg Arg Pro Arg Cys Pro Gln Leu Glu Glu Asp Ile Ala Ala Lys Glu
 100 105 110
 Lys Leu Leu Arg Val Ser Glu Asp Glu Arg Asp Arg Val Leu Glu Glu
 115 120 125
 Leu His Lys Ala Glu Asp Ser Leu Leu Ala Ala Glu Glu Ala Ala Pro
 130 135 140
 Arg Leu Lys Pro Asp Val Ala Ser Leu Asn Arg Arg Ile Gln Leu Val
 145 150 155 160
 Glu Glu Glu Leu Asp Arg Ala Gln Glu Arg Leu Ala Thr Ala Leu Gln
 165 170 175
 Lys Leu Glu Glu Ala Asp Lys Ala Ala Asp Glu Ser Glu Arg Gly Met
 180 185 190
 Lys Val Ile Glu Ser Arg Ala Gln Xaa Gly
 195 200

<210> 4533

<211> 397

<212> PRT

<213> Homo sapiens

<400> 4533

Pro Thr Arg Pro Ser Ser Val Ser Arg Arg Asp Lys Ser Lys Gln Val
 1 5 10 15
 Trp Glu Ala Val Leu Leu Pro Leu Ser Leu Leu Ser Met Met Asp Leu
 20 25 30
 Arg Asn Thr Pro Ala Lys Ser Leu Asp Lys Phe Ile Glu Asp Tyr Leu
 35 40 45
 Leu Pro Asp Thr Cys Phe Arg Met Gln Ile Asn His Ala Ile Asp Ile
 50 55 60
 Ile Cys Gly Phe Leu Lys Glu Arg Cys Phe Arg Gly Ser Ser Tyr Pro
 65 70 75 80
 Val Cys Val Ser Lys Val Val Lys Gly Gly Ser Ser Gly Lys Gly Thr

4103

85										90					95				
Thr	Leu	Arg	Gly	Arg	Ser	Asp	Ala	Asp	Leu	Val	Val	Phe	Leu	Ser	Pro				
			100					105					110						
Leu	Thr	Thr	Phe	Gln	Asp	Gln	Leu	Asn	Arg	Arg	Gly	Glu	Phe	Ile	Gln				
			115				120					125							
Glu	Ile	Arg	Arg	Gln	Leu	Glu	Ala	Cys	Gln	Arg	Glu	Arg	Ala	Phe	Ser				
	130					135					140								
Val	Lys	Phe	Glu	Val	Gln	Ala	Pro	Arg	Trp	Gly	Asn	Pro	Arg	Ala	Leu				
145					150					155					160				
Ser	Phe	Val	Leu	Ser	Ser	Leu	Gln	Leu	Gly	Glu	Gly	Val	Glu	Phe	Asp				
				165					170					175					
Val	Leu	Pro	Ala	Phe	Asp	Ala	Leu	Asp	Phe	Ala	Arg	Thr	Gly	Gln	Leu				
			180					185					190						
Thr	Gly	Gly	Tyr	Lys	Pro	Asn	Pro	Gln	Ile	Tyr	Val	Lys	Leu	Ile	Glu				
		195					200					205							
Glu	Cys	Thr	Asp	Leu	Gln	Lys	Glu	Gly	Glu	Phe	Ser	Thr	Cys	Phe	Thr				
	210					215					220								
Glu	Leu	Gln	Arg	Asp	Phe	Leu	Lys	Gln	Arg	Pro	Thr	Lys	Leu	Lys	Ser				
225					230					235					240				
Leu	Ile	Arg	Leu	Val	Lys	His	Trp	Tyr	Gln	Asn	Cys	Lys	Lys	Lys	Leu				
				245					250					255					
Gly	Lys	Leu	Pro	Pro	Gln	Tyr	Ala	Leu	Glu	Leu	Leu	Thr	Val	Tyr	Ala				
			260					265					270						
Trp	Glu	Arg	Gly	Ser	Met	Lys	Thr	His	Phe	Asn	Thr	Ala	Gln	Gly	Phe				
		275					280					285							
Arg	Thr	Val	Leu	Glu	Leu	Val	Ile	Asn	Tyr	Gln	Gln	Leu	Cys	Ile	Tyr				
	290					295					300								
Trp	Thr	Lys	Tyr	Tyr	Asp	Phe	Lys	Asn	Pro	Ile	Ile	Glu	Lys	Tyr	Leu				
305					310					315					320				
Arg	Arg	Gln	Leu	Thr	Lys	Pro	Arg	Pro	Val	Ile	Leu	Asp	Pro	Ala	Asp				
				325					330					335					
Pro	Thr	Gly	Asn	Leu	Gly	Gly	Gly	Asp	Pro	Lys	Gly	Trp	Arg	Gln	Leu				
			340					345					350						
Ala	Gln	Glu	Ala	Glu	Ala	Trp	Leu	Asn	Tyr	Pro	Cys	Phe	Lys	Asn	Trp				

4104

355 360 365
Asp Gly Ser Pro Val Ser Ser Trp Ile Leu Leu Val Arg Pro Pro Ala
370 375 380
Ser Ser Leu Pro Phe Ile Pro Ala Pro Leu His Glu Ala
385 390 395

<210> 4534

<211> 262

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4534

4105

Pro His Arg Ile Pro Ser Val Leu Ser Asp Leu Ser Ile Gln Ile Tyr
 1 5 10 15
 Gln Gln Leu Xaa Lys Ile Ala Glu Gly Xaa Leu Gln Pro Met Ile Val
 20 25 30
 Ser Ala Met Leu Glu Asn Glu Ser Ile Gln Gly Leu Ser Gly Val Lys
 35 40 45
 Pro Thr Gly Xaa Xaa Lys Xaa Ser Ser Ser Met Ala Asp Gly Asp Asn
 50 55 60
 Ser Tyr Xaa Leu Glu Ala Xaa Ile Arg Gln Met Asn Ala Phe His Thr
 65 70 75 80
 Val Met Cys Asp Gln Gly Leu Asp Pro Glu Ile Ile Leu Gln Val Phe
 85 90 95
 Lys Gln Leu Phe Tyr Met Ile Asn Ala Val Thr Leu Asn Asn Leu Leu
 100 105 110
 Leu Arg Lys Asp Val Cys Ser Trp Ser Thr Gly Met Gln Leu Arg Tyr
 115 120 125
 Asn Ile Ser Gln Leu Glu Glu Trp Leu Arg Gly Arg Asn Leu His Gln
 130 135 140
 Ser Gly Ala Val Gln Thr Met Glu Pro Leu Ile Gln Ala Ala Gln Leu
 145 150 155 160
 Leu Gln Leu Lys Lys Lys Thr Gln Glu Asp Ala Glu Ala Ile Cys Ser
 165 170 175
 Leu Cys Thr Ser Leu Ser Thr Gln Gln Ile Val Lys Ile Leu Asn Leu
 180 185 190
 Tyr Thr Pro Leu Asn Glu Phe Glu Glu Arg Val Thr Val Ala Phe Ile
 195 200 205
 Arg Thr Ile Gln Ala Gln Leu Gln Glu Arg Asn Asp Pro Gln Gln Leu
 210 215 220
 Leu Leu Asp Ala Lys His Met Phe Pro Val Leu Phe Pro Phe Asn Pro
 225 230 235 240
 Ser Ser Leu Thr Met Asp Ser Ile His Ile Pro Ala Cys Leu Asn Leu
 245 250 255
 Glu Phe Leu Asn Glu Val
 260

4106

<210> 4535

<211> 451

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (371)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4535

Gly	Met	Glu	Gly	Ser	Lys	Thr	Ser	Asn	Asn	Ser	Thr	Met	Gln	Val	Ser
1				5					10					15	

Phe	Val	Cys	Gln	Arg	Cys	Ser	Gln	Pro	Leu	Lys	Leu	Asp	Thr	Ser	Phe
			20					25					30		

Lys	Ile	Leu	Asp	Arg	Val	Thr	Ile	Gln	Glu	Leu	Thr	Ala	Pro	Leu	Leu
		35					40					45			

Thr	Thr	Ala	Gln	Ala	Lys	Pro	Gly	Glu	Thr	Gln	Glu	Glu	Glu	Thr	Asn
	50					55					60				

Ser	Gly	Glu	Glu	Pro	Phe	Ile	Glu	Thr	Pro	Arg	Gln	Asp	Gly	Val	Ser
65					70					75					80

Arg	Arg	Phe	Ile	Pro	Pro	Ala	Arg	Met	Met	Ser	Thr	Glu	Ser	Ala	Asn
				85					90					95	

Ser	Phe	Thr	Leu	Ile	Gly	Glu	Ala	Ser	Asp	Gly	Gly	Thr	Met	Glu	Asn
			100					105					110		

Leu	Ser	Arg	Arg	Leu	Lys	Val	Thr	Gly	Asp	Leu	Phe	Asp	Ile	Met	Ser
		115					120					125			

Gly	Gln	Thr	Asp	Val	Asp	His	Pro	Leu	Cys	Glu	Glu	Cys	Thr	Asp	Thr
	130					135					140				

Leu	Leu	Asp	Gln	Leu	Asp	Thr	Gln	Leu	Asn	Val	Thr	Glu	Asn	Glu	Cys
145					150					155				160	

Gln	Asn	Tyr	Lys	Arg	Cys	Leu	Glu	Ile	Leu	Glu	Gln	Met	Asn	Glu	Asp
				165					170					175	

Asp	Ser	Glu	Gln	Leu	Gln	Met	Glu	Leu	Lys	Glu	Leu	Ala	Leu	Glu	Glu
			180					185					190		

Glu	Arg	Leu	Ile	Gln	Glu	Leu	Glu	Asp	Val	Glu	Lys	Asn	Arg	Lys	Ile
		195					200					205			

4107

Val	Ala	Glu	Asn	Leu	Glu	Lys	Val	Gln	Ala	Glu	Ala	Glu	Arg	Leu	Asp	210	215	220	
Gln	Glu	Glu	Ala	Gln	Tyr	Gln	Arg	Glu	Tyr	Ser	Glu	Phe	Lys	Arg	Gln	225	230	235	240
Gln	Leu	Glu	Leu	Asp	Asp	Glu	Leu	Lys	Ser	Val	Glu	Asn	Gln	Met	Arg	245	250	255	
Tyr	Ala	Gln	Thr	Gln	Leu	Asp	Lys	Leu	Lys	Lys	Thr	Asn	Val	Phe	Asn	260	265	270	
Ala	Thr	Phe	His	Ile	Trp	His	Ser	Gly	Gln	Phe	Gly	Thr	Ile	Asn	Asn	275	280	285	
Phe	Arg	Leu	Gly	Arg	Leu	Pro	Ser	Val	Pro	Val	Glu	Trp	Asn	Glu	Ile	290	295	300	
Asn	Ala	Ala	Trp	Gly	Gln	Thr	Val	Leu	Leu	Leu	His	Ala	Leu	Ala	Asn	305	310	315	320
Lys	Met	Gly	Leu	Lys	Phe	Gln	Arg	Tyr	Arg	Leu	Val	Pro	Tyr	Gly	Asn	325	330	335	
His	Ser	Tyr	Leu	Glu	Ser	Leu	Thr	Asp	Lys	Ser	Lys	Glu	Leu	Pro	Leu	340	345	350	
Tyr	Cys	Ser	Gly	Gly	Leu	Arg	Phe	Phe	Trp	Asp	Asn	Lys	Phe	Asp	His	355	360	365	
Ala	Met	Xaa	Ala	Phe	Leu	Asp	Cys	Val	Gln	Gln	Phe	Lys	Glu	Glu	Val	370	375	380	
Glu	Lys	Gly	Glu	Thr	Arg	Phe	Cys	Leu	Pro	Tyr	Arg	Met	Asp	Val	Glu	385	390	395	400
Lys	Gly	Lys	Ile	Glu	Asp	Thr	Gly	Gly	Ser	Gly	Gly	Ser	Tyr	Ser	Ile	405	410	415	
Lys	Thr	Gln	Phe	Asn	Ser	Glu	Glu	Gln	Trp	Thr	Lys	Ala	Leu	Lys	Phe	420	425	430	
Met	Leu	Thr	Asn	Leu	Lys	Trp	Gly	Leu	Ala	Trp	Val	Ser	Ser	Gln	Phe	435	440	445	
Tyr	Asn	Lys														450			

4108

<210> 4536

<211> 35

<212> PRT

<213> Homo sapiens

<400> 4536

Val	Tyr	Ile	Arg	Asp	Pro	Leu	Val	His	Ser	Thr	Ala	Asp	Ile	Ser	Ser
1				5					10				15		

Ile	Phe	Asn	Thr	Thr	Val	Cys	Ser	Lys	Ala	Arg	Trp	Ser	Leu	Leu	Lys
			20					25					30		

Leu	His	Phe
	35	

<210> 4537

<211> 201

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4537

Asn	Asn	Cys	Ser	Leu	Leu	Trp	Val	Leu	Leu	Ala	Gly	Phe	Arg	Leu	Gly
1				5					10					15	

Asn	Val	Val	His	Ala	Ile	Gln	Ala	Thr	Glu	Gln	Ser	Ile	His	Ala	Thr
			20					25					30		

Asp	Leu	Val	Pro	Arg	Leu	Cys	Leu	Thr	Leu	Ala	Asn	Leu	Asn	Arg	Val
	35						40					45			

Ile	Tyr	Phe	Ile	Cys	Asp	Thr	Ile	Leu	Trp	Val	Arg	Ser	Val	Gly	Leu
	50					55					60				

Thr	Ser	Gly	Ile	Asn	Lys	Glu	Lys	Trp	Arg	Thr	Arg	Ala	Ala	His	His
65					70					75				80	

Tyr	Tyr	Tyr	Ser	Leu	Leu	Leu	Ser	Leu	Val	Arg	Asp	Leu	Tyr	Glu	Ile
			85						90					95	

Ser	Leu	Gln	Met	Lys	Arg	Val	Thr	Cys	Asp	Arg	Ala	Lys	Lys	Glu	Lys
			100					105					110		

Ser	Ala	Ser	Gln	Asp	Pro	Leu	Trp	Phe	Ser	Val	Ala	Glu	Glu	Xaa	Thr
			115				120					125			

4109

Glu Trp Leu Gln Ser Phe Leu Leu Leu Leu Phe Arg Ser Leu Lys Gln
 130 135 140
 His Pro Pro Leu Leu Leu Asp Thr Val Lys Asn Leu Cys Asp Ile Leu
 145 150 155 160
 Asn Pro Leu Asp Leu Leu Gly Ile Tyr Lys Ser Asn Pro Gly Ile Ile
 165 170 175
 Gly Leu Gly Gly Leu Val Ser Ser Ile Ala Gly Met Ile Thr Val Ala
 180 185 190
 Tyr Pro Gln Met Lys Leu Lys Thr Arg
 195 200

<210> 4538
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 4538
 Ala Asp Ile Ala Gly Val Leu Ala Ile Arg Pro Asp Glu Leu Arg Phe
 1 5 10 15
 Arg Tyr Ser Met Val Ala Tyr Trp Arg Gln Ala Gly Leu Ser Tyr Ile
 20 25 30
 Arg Tyr Ser Gln Ile Cys Ala Lys Ala Val Arg Asp Ala Leu Lys Thr
 35 40 45
 Glu Phe Lys Ala Asn Ala Glu Lys Thr Ser Gly Ser Asn Val Lys Ile
 50 55 60
 Val Lys Val Lys Lys Glu
 65 70

<210> 4539
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 4539
 Ile Lys Ser Leu Asp Glu Gln Cys Val Val Gly Lys Ile Ser Lys His
 1 5 10 15
 Trp Thr Gly Ile Leu Arg Glu Ala Phe Thr Asp Ala Asp Asn Phe Gly

4110

	20		25		30										
Ile	Gln	Phe	Pro	Leu	Asp	Leu	Asp	Val	Lys	Met	Lys	Ala	Val	Met	Ile
	35				40					45					
Gly	Ala	Cys	Phe	Leu	Ile	Asp	Phe	Met	Phe	Phe	Glu	Ser	Thr	Gly	Ser
	50				55						60				
Gln	Glu	Gln	Lys	Ser	Gly	Val	Trp								
65					70										

<210> 4540

<211> 376

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (364)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (370)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (372)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (374)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4540

Ser	Asn	Leu	Val	Pro	Val	Asp	Ile	Ile	Glu	Ser	Val	Val	Ser	Lys	Glu
1				5					10					15	

Met	Asp	Lys	Arg	Tyr	Leu	Gln	Phe	Asp	Ile	Lys	Ala	Phe	Val	Glu	Asn
			20					25					30		

Asn	Pro	Ala	Ile	Lys	Trp	Cys	Pro	Thr	Pro	Gly	Cys	Asp	Arg	Ala	Val
	35						40					45			

Arg	Leu	Thr	Lys	Gln	Gly	Ser	Asn	Thr	Ser	Gly	Ser	Asp	Thr	Leu	Ser
	50					55						60			

4111

Phe	Pro	Leu	Leu	Arg	Ala	Pro	Ala	Val	Asp	Cys	Gly	Lys	Gly	His	Leu	65	70	75	80
Phe	Cys	Trp	Glu	Cys	Leu	Gly	Glu	Ala	His	Glu	Pro	Cys	Asp	Cys	Gln	85	90	95	
Thr	Trp	Lys	Asn	Trp	Leu	Gln	Lys	Ile	Thr	Glu	Met	Lys	Pro	Glu	Glu	100	105	110	
Leu	Val	Gly	Val	Ser	Glu	Ala	Tyr	Glu	Asp	Ala	Ala	Asn	Cys	Leu	Trp	115	120	125	
Leu	Leu	Thr	Asn	Ser	Lys	Pro	Cys	Ala	Asn	Cys	Lys	Ser	Pro	Ile	Gln	130	135	140	
Lys	Asn	Glu	Gly	Cys	Asn	His	Met	Gln	Cys	Ala	Lys	Cys	Lys	Tyr	Asp	145	150	155	160
Phe	Cys	Trp	Ile	Cys	Leu	Glu	Glu	Trp	Lys	Lys	His	Ser	Ser	Ser	Thr	165	170	175	
Gly	Gly	Tyr	Tyr	Arg	Cys	Thr	Arg	Tyr	Glu	Val	Ile	Gln	His	Val	Glu	180	185	190	
Glu	Gln	Ser	Lys	Glu	Met	Thr	Val	Glu	Ala	Glu	Lys	Lys	His	Lys	Arg	195	200	205	
Phe	Gln	Glu	Leu	Asp	Arg	Phe	Met	His	Tyr	Tyr	Thr	Arg	Phe	Lys	Asn	210	215	220	
His	Glu	His	Ser	Tyr	Gln	Leu	Glu	Gln	Arg	Leu	Leu	Lys	Thr	Ala	Lys	225	230	235	240
Glu	Lys	Met	Glu	Gln	Leu	Ser	Arg	Ala	Leu	Lys	Glu	Thr	Glu	Gly	Gly	245	250	255	
Cys	Pro	Asp	Thr	Thr	Phe	Ile	Glu	Asp	Ala	Val	His	Val	Leu	Leu	Lys	260	265	270	
Thr	Arg	Arg	Ile	Leu	Lys	Cys	Ser	Tyr	Pro	Tyr	Gly	Phe	Phe	Leu	Glu	275	280	285	
Pro	Lys	Ser	Thr	Lys	Lys	Glu	Ile	Phe	Glu	Leu	Met	Gln	Thr	Asp	Leu	290	295	300	
Glu	Met	Val	Thr	Glu	Asp	Leu	Ala	Gln	Lys	Val	Asn	Arg	Pro	Tyr	Leu	305	310	315	320
Arg	Thr	Pro	Arg	His	Lys	Ile	Ile	Lys	Ala	Ala	Cys	Leu	Val	Gln	Gln	325	330	335	

4112

Lys Arg Gln Glu Phe Leu Gly Ile Cys Gly Leu Gly Gly Val Ala Pro
 340 345 350

Ala Asp Ser Pro Glu Ala Ser Lys Ala His Phe Xaa Gly Gly Asn Met
 355 360 365

Gly Xaa Gly Xaa Tyr Xaa Gly Val
 370 375

<210> 4541

<211> 123

<212> PRT

<213> Homo sapiens

<400> 4541

Ala Arg Val Lys Leu Lys Tyr Cys Phe Thr Cys Lys Met Phe Arg Pro
 1 5 10 15

Pro Arg Thr Ser His Cys Ser Val Cys Asp Asn Cys Val Glu Arg Phe
 20 25 30

Asp His His Cys Pro Trp Val Gly Asn Cys Val Gly Arg Arg Asn Tyr
 35 40 45

Arg Phe Phe Tyr Ala Phe Ile Leu Ser Leu Ser Phe Leu Thr Ala Phe
 50 55 60

Ile Phe Ala Cys Val Val Thr His Leu Thr Leu Arg Ala Gln Gly Ser
 65 70 75 80

Asn Phe Leu Ser Thr Leu Lys Glu Thr Pro Ala Ser Val Leu Gly Val
 85 90 95

Gly Asp Leu Leu Leu Leu His Leu Val His Ser Gly Pro Leu Arg Val
 100 105 110

Ser His Val Pro Arg Arg Leu Gln Pro Asp Tyr
 115 120

<210> 4542

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (138)

4113

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (238)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (244)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4542

Gly	Asp	Thr	Thr	Ile	Pro	Leu	Ser	Leu	Cys	Leu	Ser	Gln	Arg	Pro	His
1				5					10					15	

Leu	Thr	Ser	Pro	Lys	Gly	Ser	Arg	Cys	Ser	Arg	His	Thr	Phe	Ala	Pro
			20					25					30		

Ala	Ala	Met	Thr	Leu	Ser	Pro	Leu	Leu	Leu	Phe	Leu	Pro	Pro	Leu	Leu
		35						40				45			

Leu	Leu	Leu	Asp	Val	Pro	Thr	Ala	Ala	Val	Gln	Ala	Ser	Pro	Leu	Gln
	50					55					60				

Ala	Leu	Asp	Phe	Phe	Gly	Asn	Gly	Pro	Pro	Val	Asn	Tyr	Lys	Thr	Gly
65					70					75					80

Asn	Leu	Tyr	Leu	Arg	Gly	Pro	Leu	Lys	Lys	Ser	Asn	Ala	Pro	Leu	Val
				85					90					95	

4114

Asn Val Thr Leu Tyr Tyr Glu Ala Leu Cys Gly Gly Cys Arg Ala Phe
 100 105 110
 Leu Ile Arg Glu Leu Phe Pro Thr Trp Leu Leu Val Met Glu Ile Leu
 115 120 125
 Asn Val Thr Leu Val Pro Tyr Gly Asn Xaa Gln Glu Gln Xaa Xaa Xaa
 130 135 140
 Gly Arg Trp Glu Phe Lys Cys Gln His Gly Glu Glu Glu Cys Lys Phe
 145 150 155 160
 Asn Lys Val Glu Ala Cys Val Leu Asp Glu Leu Asp Met Glu Leu Ala
 165 170 175
 Phe Leu Thr Ile Val Cys Met Glu Glu Phe Glu Asp Met Glu Arg Ser
 180 185 190
 Leu Pro Leu Cys Cys Ser Ser Thr Pro Arg Leu Ser Gln Asn Tyr His
 195 200 205
 Glu Cys Ala Met Gly Arg Gly Xaa Ser His His Ala Thr Pro Arg Gln
 210 215 220
 Ile Ser Gln His Lys Asp Met Ser Trp Tyr Ala Met Glu Xaa Glu Ile
 225 230 235 240
 Thr Ser Leu Xaa Val
 245

<210> 4543

<211> 197

<212> PRT

<213> Homo sapiens

<400> 4543

Tyr Trp Cys Glu Gln Cys Asp Val Gln Phe Ser Ser Ser Ser Glu Leu
 1 5 10 15
 Tyr Leu His Phe Gln Glu His Ser Cys Asp Glu Gln Tyr Leu Cys Gln
 20 25 30
 Phe Cys Glu His Glu Thr Asn Asp Pro Glu Asp Leu His Ser His Val
 35 40 45
 Val Asn Glu His Ala Cys Lys Leu Ile Glu Leu Ser Asp Lys Tyr Asn
 50 55 60
 Asn Gly Glu His Gly Gln Tyr Ser Leu Leu Ser Lys Ile Thr Phe Asp

4115

65		70		75		80									
Lys	Cys	Lys	Asn	Phe	Phe	Val	Cys	Gln	Val	Cys	Gly	Phe	Arg	Ser	Arg
				85				90						95	
Leu	His	Thr	Asn	Val	Asn	Arg	His	Val	Ala	Ile	Glu	His	Thr	Lys	Ile
			100					105					110		
Phe	Pro	His	Val	Cys	Asp	Asp	Cys	Gly	Lys	Gly	Phe	Ser	Ser	Met	Leu
		115					120					125			
Glu	Tyr	Cys	Lys	His	Leu	Asn	Ser	His	Leu	Ser	Glu	Gly	Ile	Tyr	Leu
	130					135					140				
Cys	Gln	Tyr	Cys	Glu	Tyr	Ser	Thr	Gly	Gln	Ile	Glu	Asp	Leu	Lys	Ile
145					150					155					160
His	Leu	Asp	Phe	Lys	His	Ser	Ala	Asp	Leu	Pro	His	Lys	Cys	Ser	Asp
			165						170					175	
Cys	Leu	Met	Arg	Phe	Gly	Asn	Glu	Arg	Glu	Leu	Ile	Ser	His	Leu	Pro
			180					185						190	
Val	His	Glu	Thr	Thr											
		195													

<210> 4544

<211> 272

<212> PRT

<213> Homo sapiens

<400> 4544

Gly	His	Ala	Met	Ile	Asp	Leu	Arg	Ser	Asp	Thr	Val	Thr	Arg	Pro	Ser
1				5					10					15	
Arg	Ala	Met	Leu	Glu	Ala	Met	Met	Ala	Ala	Pro	Val	Gly	Asp	Asp	Val
			20					25					30		
Tyr	Gly	Asp	Asp	Pro	Thr	Val	Asn	Ala	Leu	Gln	Asp	Tyr	Ala	Ala	Glu
		35					40					45			
Leu	Ser	Gly	Lys	Glu	Ala	Ala	Ile	Phe	Leu	Pro	Thr	Gly	Thr	Gln	Ala
	50						55				60				
Asn	Leu	Val	Ala	Leu	Leu	Ser	His	Cys	Glu	Arg	Gly	Glu	Glu	Tyr	Ile
65					70					75					80
Val	Gly	Gln	Ala	Ala	His	Asn	Tyr	Leu	Phe	Glu	Ala	Gly	Gly	Ala	Ala
			85						90					95	

4116

Val Leu Gly Ser Ile Gln Pro Gln Pro Ile Asp Ala Ala Ala Asp Gly
 100 105 110
 Thr Leu Pro Leu Asp Lys Val Ala Met Lys Ile Lys Pro Asp Asp Ile
 115 120 125
 His Phe Ala Arg Thr Lys Leu Leu Ser Leu Glu Asn Thr His Asn Gly
 130 135 140
 Lys Val Leu Pro Arg Glu Tyr Leu Lys Glu Ala Trp Glu Phe Thr Arg
 145 150 155 160
 Glu Arg Asn Leu Ala Leu His Val Asp Gly Ala Arg Ile Phe Asn Ala
 165 170 175
 Val Val Ala Tyr Gly Cys Glu Leu Lys Glu Ile Thr Gln Tyr Cys Asp
 180 185 190
 Ser Phe Thr Ile Cys Leu Ser Lys Gly Leu Gly Thr Pro Val Gly Ser
 195 200 205
 Leu Leu Val Gly Asn Arg Asp Tyr Ile Lys Arg Ala Ile Arg Trp Arg
 210 215 220
 Lys Met Thr Gly Gly Gly Met Arg Gln Ser Gly Ile Leu Ala Ala Ala
 225 230 235 240
 Gly Ile Tyr Ala Leu Lys Asn Asn Val Ala Arg Leu Gln Glu Asp His
 245 250 255
 Asp Asn Ala Ala Trp Met Ala Asp Ser Cys Val Lys Gln Ala Arg Met
 260 265 270

<210> 4545

<211> 21

<212> PRT

<213> Homo sapiens

<400> 4545

Glu Cys Lys Met Val Gln Pro Leu Trp Lys Thr Ile Trp His Ser Phe
 1 5 10 15

Asn Pro Ser Asn Ser
 20

4117

<210> 4546

<211> 368

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4546

Arg	Gln	Arg	Arg	Lys	Gly	Gly	Gln	Glu	Arg	Gly	Arg	Arg	Gly	Lys	Met
1				5					10					15	

Ala	Ala	Thr	Lys	Arg	Lys	Arg	Arg	Gly	Gly	Phe	Ala	Val	Gln	Ala	Lys
			20					25					30		

Lys	Pro	Lys	Arg	Asn	Glu	Ile	Asp	Ala	Glu	Pro	Pro	Ala	Lys	Arg	His
	35						40					45			

Ala	Thr	Ala	Glu	Glu	Val	Glu	Glu	Glu	Glu	Arg	Asp	Arg	Ile	Pro	Gly
	50					55					60				

Pro	Val	Cys	Lys	Gly	Lys	Trp	Lys	Asn	Lys	Glu	Arg	Ile	Leu	Ile	Phe
65					70					75					80

Ser	Ser	Arg	Gly	Ile	Asn	Phe	Arg	Thr	Arg	His	Leu	Met	Gln	Asp	Leu
				85					90					95	

Arg	Met	Leu	Met	Pro	His	Ser	Lys	Ala	Asp	Thr	Lys	Met	Asp	Arg	Lys
			100					105					110		

Asp	Lys	Leu	Phe	Val	Ile	Asn	Glu	Val	Cys	Glu	Met	Lys	Asn	Cys	Asn
	115						120					125			

Lys	Cys	Ile	Tyr	Phe	Glu	Ala	Lys	Lys	Lys	Gln	Asp	Leu	Tyr	Met	Trp
	130					135					140				

Leu	Ser	Asn	Ser	Pro	His	Gly	Pro	Ser	Ala	Lys	Phe	Leu	Val	Gln	Asn
145					150					155					160

Ile	His	Thr	Leu	Ala	Glu	Leu	Lys	Met	Thr	Gly	Asn	Cys	Leu	Lys	Gly
				165					170					175	

Ser	Arg	Pro	Leu	Leu	Ser	Phe	Asp	Pro	Ala	Phe	Asp	Glu	Leu	Pro	His
			180					185					190		

Tyr	Ala	Leu	Xaa	Lys	Glu	Leu	Leu	Ile	Gln	Ile	Phe	Ser	Thr	Pro	Arg
		195					200					205			

4118

Tyr His Pro Lys Ser Gln Pro Phe Val Asp His Val Phe Thr Phe Thr
 210 215 220
 Ile Leu Asp Asn Arg Ile Trp Phe Arg Asn Phe Gln Ile Ile Glu Glu
 225 230 235 240
 Asp Ala Ala Leu Val Glu Ile Gly Pro Arg Phe Val Leu Asn Leu Ile
 245 250 255
 Lys Ile Phe Gln Gly Ser Phe Gly Gly Pro Thr Leu Tyr Glu Asn Pro
 260 265 270
 His Tyr Gln Ser Pro Asn Met His Arg Arg Val Ile Arg Ser Ile Thr
 275 280 285
 Ala Ala Lys Tyr Arg Glu Lys Gln Gln Val Lys Asp Val Gln Lys Leu
 290 295 300
 Arg Lys Lys Glu Pro Lys Thr Leu Leu Pro His Asp Pro Thr Ala Asp
 305 310 315 320
 Val Phe Val Thr Pro Ala Glu Glu Lys Pro Ile Glu Ile Gln Trp Val
 325 330 335
 Lys Pro Glu Pro Lys Val Asp Leu Lys Ala Arg Lys Lys Arg Ile Tyr
 340 345 350
 Lys Arg Gln Arg Lys Met Lys Gln Arg Met Asp Ser Gly Lys Thr Lys
 355 360 365

<210> 4547

<211> 565

<212> PRT

<213> Homo sapiens

<400> 4547

Ile Pro Gly Ser Thr His Ala Ser Ala Gly Asn Leu Asp Ser Pro Glu
 1 5 10 15
 Gly Gly Phe Asp Ala Ile Met Gln Val Ala Val Cys Gly Ser Leu Ile
 20 25 30
 Gly Trp Arg Asn Val Thr Arg Leu Leu Val Phe Ser Thr Asp Ala Gly
 35 40 45

4119

Phe	His	Phe	Ala	Gly	Asp	Gly	Lys	Leu	Gly	Gly	Ile	Val	Leu	Pro	Asn	50	55	60	
Asp	Gly	Gln	Cys	His	Leu	Glu	Asn	Asn	Met	Tyr	Thr	Met	Ser	His	Tyr	65	70	75	80
Tyr	Asp	Tyr	Pro	Ser	Ile	Ala	His	Leu	Val	Gln	Lys	Leu	Ser	Glu	Asn	85	90	95	
Asn	Ile	Gln	Thr	Ile	Phe	Ala	Val	Thr	Glu	Glu	Phe	Gln	Pro	Val	Tyr	100	105	110	
Lys	Glu	Leu	Lys	Asn	Leu	Ile	Pro	Lys	Ser	Ala	Val	Gly	Thr	Leu	Ser	115	120	125	
Ala	Asn	Ser	Ser	Asn	Val	Ile	Gln	Leu	Ile	Ile	Asp	Ala	Tyr	Asn	Ser	130	135	140	
Leu	Ser	Ser	Glu	Val	Ile	Leu	Glu	Asn	Gly	Lys	Leu	Ser	Glu	Gly	Val	145	150	155	160
Thr	Ile	Ser	Tyr	Lys	Ser	Tyr	Cys	Lys	Asn	Gly	Val	Asn	Gly	Thr	Gly	165	170	175	
Glu	Asn	Gly	Arg	Lys	Cys	Ser	Asn	Ile	Ser	Ile	Gly	Asp	Glu	Val	Gln	180	185	190	
Phe	Glu	Ile	Ser	Ile	Thr	Ser	Asn	Lys	Cys	Pro	Lys	Lys	Asp	Ser	Asp	195	200	205	
Ser	Phe	Lys	Ile	Arg	Pro	Leu	Gly	Phe	Thr	Glu	Glu	Val	Glu	Val	Ile	210	215	220	
Leu	Gln	Tyr	Ile	Cys	Glu	Cys	Glu	Cys	Gln	Ser	Glu	Gly	Ile	Pro	Glu	225	230	235	240
Ser	Pro	Lys	Cys	His	Glu	Gly	Asn	Gly	Thr	Phe	Glu	Cys	Gly	Ala	Cys	245	250	255	
Arg	Cys	Asn	Glu	Gly	Arg	Val	Gly	Arg	His	Cys	Glu	Cys	Ser	Thr	Asp	260	265	270	
Glu	Val	Asn	Ser	Glu	Asp	Met	Asp	Ala	Tyr	Cys	Arg	Lys	Glu	Asn	Ser	275	280	285	
Ser	Glu	Ile	Cys	Ser	Asn	Asn	Gly	Glu	Cys	Val	Cys	Gly	Gln	Cys	Val	290	295	300	
Cys	Arg	Lys	Arg	Asp	Asn	Thr	Asn	Glu	Ile	Tyr	Ser	Gly	Lys	Phe	Cys	305	310	315	320

4120

Glu Cys Asp Asn Phe Asn Cys Asp Arg Ser Asn Gly Leu Ile Cys Gly
 325 330 335
 Gly Asn Gly Val Cys Lys Cys Arg Val Cys Glu Cys Asn Pro Asn Tyr
 340 345 350
 Thr Gly Ser Ala Cys Asp Cys Ser Leu Asp Thr Ser Thr Cys Glu Ala
 355 360 365
 Ser Asn Gly Gln Ile Cys Asn Gly Arg Gly Ile Cys Glu Cys Gly Val
 370 375 380
 Cys Lys Cys Thr Asp Pro Lys Phe Gln Gly Gln Thr Cys Glu Met Cys
 385 390 395 400
 Gln Thr Cys Leu Gly Val Cys Ala Glu His Lys Glu Cys Val Gln Cys
 405 410 415
 Arg Ala Phe Asn Lys Gly Glu Lys Lys Asp Thr Cys Thr Gln Glu Cys
 420 425 430
 Ser Tyr Phe Asn Ile Thr Lys Val Glu Ser Arg Asp Lys Leu Pro Gln
 435 440 445
 Pro Val Gln Pro Asp Pro Val Ser His Cys Lys Glu Lys Asp Val Asp
 450 455 460
 Asp Cys Trp Phe Tyr Phe Thr Tyr Ser Val Asn Gly Asn Asn Glu Val
 465 470 475 480
 Met Val His Val Val Glu Asn Pro Glu Cys Pro Thr Gly Pro Asp Ile
 485 490 495
 Ile Pro Ile Val Ala Gly Val Val Ala Gly Ile Val Leu Ile Gly Leu
 500 505 510
 Ala Leu Leu Leu Ile Trp Lys Leu Leu Met Ile Ile His Asp Arg Arg
 515 520 525
 Glu Phe Ala Lys Phe Glu Lys Glu Lys Met Asn Ala Lys Trp Asp Thr
 530 535 540
 Gly Glu Asn Pro Ile Tyr Lys Ser Ala Val Thr Thr Val Val Asn Pro
 545 550 555 560
 Lys Tyr Glu Gly Lys
 565

4121

<211> 60

<212> PRT

<213> Homo sapiens

<400> 4548

Val	Thr	Ser	Lys	Thr	Gln	Val	Gly	Leu	Phe	Lys	Phe	Leu	Lys	Phe	Glu
1				5				10				15			

Ile	Phe	Tyr	Leu	Gln	Lys	Ile	Val	Leu	Cys	Phe	Ile	Ile	Ser	Gln	Met
			20					25					30		

Ser	Val	Arg	Phe	Leu	Ser	Thr	Asn	Asp	His	Ala	Ser	Ile	Phe	Phe	Ser
		35					40					45			

Phe	Lys	Pro	Pro	Asn	Gln	Tyr	Phe	Ser	Phe	Lys	Phe
	50					55					60

<210> 4549

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4549

Thr	Arg	His	Lys	Ala	Gln	Leu	Ile	Phe	Val	Phe	Leu	Val	Glu	Thr	Gly
1				5				10				15			

Phe	Asp	Tyr	Val	Gly	Gln	Ala	Gly	Leu	Lys	Leu	Leu	Thr	Ser	Ser	Asp
			20					25					30		

Pro	Pro	Ala	Ser	Ala	Ser	Gln	Arg	Xaa	Gly	Thr	Ile	Asp	Met	Ser	His
		35					40					45			

Arg	Ala	Trp	Pro	Ser
	50			

<210> 4550

<211> 166

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4122

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4550

Ala	Gln	Xaa	Leu	Ser	Ser	Pro	Val	Arg	Gly	Ile	Ser	Gly	Glu	Gln	Ser
1				5					10					15	
Thr	Xaa	Gly	Ser	Phe	Pro	Leu	Arg	Tyr	Val	Gln	Asp	Gln	Val	Ala	Ala
			20					25					30		
Pro	Phe	Gln	Leu	Ser	Asn	His	Thr	Gly	Arg	Ile	Lys	Val	Val	Phe	Thr
		35					40					45			
Pro	Ser	Ile	Cys	Lys	Val	Thr	Cys	Thr	Lys	Gly	Ser	Cys	Gln	Asn	Ser
	50					55					60				
Cys	Glu	Lys	Gly	Asn	Thr	Thr	Thr	Leu	Ile	Ser	Glu	Asn	Gly	His	Ala
65					70					75					80
Ala	Asp	Thr	Leu	Thr	Ala	Thr	Asn	Phe	Arg	Val	Val	Ile	Cys	His	Leu
				85					90					95	
Pro	Cys	Met	Asn	Gly	Gly	Gln	Cys	Ser	Ser	Arg	Asp	Lys	Cys	Gln	Cys
			100					105					110		
Pro	Pro	Asn	Phe	Thr	Gly	Lys	Leu	Cys	Gln	Ile	Pro	Val	His	Gly	Ala
		115					120					125			
Ser	Val	Xaa	Lys	Leu	Tyr	Gln	His	Ser	Gln	Gln	Pro	Gly	Lys	Ala	Leu
	130					135					140				
Gly	Thr	His	Val	Ile	His	Ser	Thr	His	Thr	Leu	Pro	Leu	Thr	Val	Thr
145					150					155					160
Ser	Gln	Gln	Glu	Ser	Lys										
				165											

<210> 4551

<211> 60

4123

<212> PRT

<213> Homo sapiens

<400> 4551

Cys Val Pro Ser Thr Ser Ser Pro Gly Ile Ile Leu Ser Leu Ala Leu
 1 5 10 15

Ala Gly Ile Leu Gly Ile Cys Ile Val Val Val Val Ser Ile Trp Leu
 20 25 30

Phe Arg Arg Lys Ser Ile Lys Lys Gly Asp Asn Lys Gly Val Ile Tyr
 35 40 45

Lys Pro Ala Thr Lys Met Glu Thr Glu Ala His Ala
 50 55 60

<210> 4552

<211> 99

<212> PRT

<213> Homo sapiens

<400> 4552

His Cys Ile Leu Met Leu Phe Glu Asn Ala Ile Tyr Ile Val Lys Lys
 1 5 10 15

Arg Ala Gly Ala Pro Ala Ala Leu Val Pro Trp Gly Ser His Pro Ser
 20 25 30

Pro Gly Gly Leu Leu Gly Gly Leu Arg Arg Trp Ala Thr Glu Gly Gln
 35 40 45

Ala Gly Ala Ala His Ser Pro His Glu Gly Ile Ser Val Ser Tyr Ser
 50 55 60

Val Gln Arg Arg Gly Lys Thr Gln Cys Pro Gly Phe Ser Pro Pro Glu
 65 70 75 80

Met Lys Asp Thr Leu Tyr Phe Leu Pro Asn Val Pro Ala Ser Arg Phe
 85 90 95

Ile Met Asn

<210> 4553

<211> 73

<212> PRT

<213> Homo sapiens

4124

<400> 4553

Gly Gly Trp Phe Tyr Pro Phe Cys Leu Leu Phe Gly Thr Gln Leu Val
1 5 10 15

Phe Phe Gly Leu Leu Ser Ser Gly Ser Arg Ala Val Leu Ser Asn Thr
20 25 30

Val Thr Thr Cys Gly Cys Leu Lys Leu Ser Gln Leu Lys Ser His Lys
35 40 45

Ile Lys Asn Ser Phe Leu Ser Cys Thr Asn His Val Ser Arg Gly Val
50 55 60

Thr Val Cys Ser Ser Trp Leu Leu Tyr
65 70

<210> 4554

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4125

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4554

Cys	Leu	Cys	Leu	His	Cys	Pro	Ser	Ser	Tyr	Leu	Phe	Cys	Ser	Met	Ser
1				5					10					15	
His	Ser	Tyr	Lys	Lys	Ala	Ile	Ser	Asp	Glu	Ala	Leu	Arg	Xaa	Phe	Gln
			20					25					30		
Met	Asp	Tyr	Phe	Gly	Gly	Leu	Xaa	Pro	Gly	Gln	Tyr	Ala	Thr	Arg	Met
			35				40					45			
Thr	Gly	Gln	Val	His	Gly	Ser	Gly	Cys	His	Leu	Arg	Ser	Ala	Pro	Cys
	50					55					60				
Asp	Leu	Gly	Ala	Ser	Gln	Arg	Asn	Tyr	Pro	Val	Ile	Ser	Leu	Lys	Ser
65					70					75				80	
Met	Leu	Val	Cys	Phe	Pro	Lys	Ala	Asn	Gln	Gln	Leu	Ile	Gln	Thr	Leu
				85					90					95	
Gly	Pro	Gln	Ser	Arg	Trp	Asn	Asn	Gly	Arg	Arg	Leu	Pro	Glu	Cys	Gln
			100					105					110		
Val	Leu	Gln	Asp	Glu	Leu	Lys	Xaa	Arg	Val	Val	Gly	Arg	Xaa	Val	Gly
		115					120					125			
Gly	Lys	Gly	Pro	Cys	Pro	Asp	Xaa	Cys	Xaa	Pro	Cys	Ile	Tyr		
	130					135					140				

<210> 4555

<211> 301

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (265)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4555

Gly	Thr	Ser	Val	Cys	Arg	Arg	Val	Glu	Lys	Asn	Trp	Gly	Ala	Val	Val
1				5					10				15		

Arg	Ser	Pro	Glu	Gly	Thr	Pro	Gln	Lys	Ile	Arg	Gln	Leu	Ile	Asp	Glu	
			20					25					30			
Gly	Ile	Ala	Pro	Glu	Glu	Gly	Gly	Val	Asp	Ala	Lys	Asp	Thr	Ser	Ala	
			35					40					45			
Thr	Ser	Gln	Ser	Val	Asn	Gly	Ser	Pro	Gln	Ala	Glu	Gln	Pro	Ser	Leu	
			50					55					60			
Glu	Ser	Thr	Ser	Lys	Glu	Ala	Phe	Phe	Ser	Arg	Val	Glu	Thr	Phe	Ser	
			65					70					75		80	
Ser	Leu	Lys	Trp	Ala	Gly	Lys	Pro	Phe	Glu	Leu	Ser	Pro	Leu	Val	Cys	
			85					90					95			
Ala	Lys	Tyr	Gly	Trp	Val	Thr	Val	Glu	Cys	Asp	Met	Leu	Lys	Cys	Ser	
			100					105					110			
Ser	Cys	Gln	Ala	Phe	Leu	Cys	Ala	Ser	Leu	Gln	Pro	Ala	Phe	Asp	Phe	
			115					120					125			
Asp	Arg	Tyr	Lys	Gln	Arg	Cys	Ala	Glu	Leu	Lys	Lys	Ala	Leu	Cys	Thr	
			130					135					140			
Ala	His	Glu	Lys	Phe	Cys	Phe	Trp	Pro	Asp	Ser	Pro	Ser	Pro	Asp	Arg	
			145					150					155		160	
Phe	Gly	Met	Leu	Pro	Leu	Asp	Glu	Pro	Ala	Ile	Leu	Val	Ser	Glu	Phe	
			165					170					175			
Leu	Asp	Arg	Phe	Gln	Ser	Leu	Cys	His	Leu	Asp	Leu	Gln	Leu	Pro	Ser	
			180					185					190			
Leu	Arg	Pro	Glu	Asp	Leu	Lys	Thr	Met	Cys	Leu	Thr	Glu	Asp	Lys	Ile	
			195					200					205			
Ser	Leu	Leu	Leu	His	Leu	Leu	Glu	Asp	Glu	Leu	Asp	His	Arg	Thr	Asp	
			210					215					220			
Glu	Arg	Lys	Thr	Thr	Ile	Lys	Leu	Gly	Ser	Asp	Ile	Gln	Val	His	Val	
			225					230					235		240	
Thr	Ala	Cys	Ile	Leu	Ser	Val	Cys	Gly	Trp	Ala	Cys	Ser	Ser	Ser	Leu	
			245					250					255			
Glu	Ser	Met	Gln	Leu	Ser	Leu	Ile	Xaa	Cys	Ser	Gln	Cys	Met	Xaa	Lys	
			260					265					270			
Val	Gly	Leu	Trp	Gly	Phe	Gln	Gln	Ile	Glu	Ser	Ser	Met	Thr	Asp	Leu	
			275					280					285			

4127

Asp Ala Ser Leu Pro Asp Gln Leu Pro Asn Pro Arg Pro
 290 295 300

<210> 4556

<211> 163

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4556

Xaa Glu Pro Lys Pro Ser Val Glu Pro Val Lys Ser Ile Ser Ser Met
 1 5 10 15

Glu Leu Lys Thr Glu Pro Phe Asp Asp Phe Leu Phe Pro Ala Ser Ser
 20 25 30

Arg Pro Ser Gly Ser Glu Thr Ala Arg Ser Val Pro Asp Met Asp Leu
 35 40 45

Ser Gly Ser Phe Tyr Ala Ala Asp Trp Glu Pro Leu His Ser Gly Ser
 50 55 60

Leu Gly Met Gly Pro Met Ala Gln Ser Trp Ser Pro Cys Ala Leu Arg
 65 70 75 80

Trp Ser Pro Val Leu Pro Ala Ala Leu Leu Thr Arg Leu Pro Ser Ser
 85 90 95

Ser Pro Thr Pro Arg Leu Thr Pro Ser Pro Ala Val Gln Leu Pro Thr
 100 105 110

Ala Arg Ala Ala Ala Ala Met Ser Leu Pro Leu Thr Arg Ser Ala His
 115 120 125

Pro Arg Cys Trp Pro Cys Glu Gly Ala Gly Lys Gly Arg Gln Pro Ala
 130 135 140

Pro Thr Ser Ala Thr Ala Arg Ala Gly Ala Leu Gln Arg Gly Glu Thr
 145 150 155 160

His Leu Pro

4128

<210> 4557

<211> 89

<212> PRT

<213> Homo sapiens

<400> 4557

Gln Thr Ala Ser Val Trp Pro Cys Pro His Ser Tyr Met Ser Leu Ser
 1 5 10 15

Thr Ser Thr Ser Leu Arg Ser Leu Thr Ser Arg Trp Thr Leu Tyr Ser
 20 25 30

His Val His Leu Ile Pro Asp Glu Leu Trp Ser Tyr Leu Asp Ala Gln
 35 40 45

Ile Arg Gly Phe Tyr Leu Ser Ile Gln Cys Ser Leu Arg Phe Gln Asp
 50 55 60

Ile Ser Pro Gln Ala Leu Gly Phe Thr Leu Gly Ile Arg Arg Leu His
 65 70 75 80

Val Ser Leu Glu Met Thr Cys Lys Ile
 85

<210> 4558

<211> 353

<212> PRT

<213> Homo sapiens

<400> 4558

Gly Ser Leu Asp Leu Trp Arg Gly Ala Glu Leu Ser Pro Gly His Ser
 1 5 10 15

Thr Leu Phe Thr Leu Cys Ala Cys Ala Lys Gly Ala Met Ala Ala Ser
 20 25 30

Cys Val Leu Leu His Thr Gly Gln Lys Met Pro Leu Ile Gly Leu Gly
 35 40 45

Thr Trp Lys Ser Glu Pro Gly Gln Val Lys Ala Ala Val Lys Tyr Ala
 50 55 60

Leu Ser Val Gly Tyr Arg His Ile Asp Cys Ala Ala Ile Tyr Gly Asn
 65 70 75 80

Glu Pro Glu Ile Gly Glu Ala Leu Lys Glu Asp Val Gly Pro Gly Lys
 85 90 95

4129

Ala	Val	Pro	Arg	Glu	Glu	Leu	Phe	Val	Thr	Ser	Lys	Leu	Trp	Asn	Thr			
				100				105					110					
Lys	His	His	Pro	Glu	Asp	Val	Glu	Pro	Ala	Leu	Arg	Lys	Thr	Leu	Ala			
			115				120					125						
Asp	Leu	Gln	Leu	Glu	Tyr	Leu	Asp	Leu	Tyr	Leu	Met	His	Trp	Pro	Tyr			
	130					135					140							
Ala	Phe	Glu	Arg	Gly	Asp	Asn	Pro	Phe	Pro	Lys	Asn	Ala	Asp	Gly	Thr			
145					150					155					160			
Ile	Cys	Tyr	Asp	Ser	Thr	His	Tyr	Lys	Glu	Thr	Trp	Lys	Ala	Leu	Glu			
				165					170					175				
Ala	Leu	Val	Ala	Lys	Gly	Leu	Val	Gln	Ala	Leu	Gly	Leu	Ser	Asn	Phe			
			180					185					190					
Asn	Ser	Arg	Gln	Ile	Asp	Asp	Ile	Leu	Ser	Val	Ala	Ser	Val	Arg	Pro			
		195					200					205						
Ala	Val	Leu	Gln	Val	Glu	Cys	His	Pro	Tyr	Leu	Ala	Gln	Asn	Glu	Leu			
	210					215					220							
Ile	Ala	His	Cys	Gln	Ala	Arg	Gly	Leu	Glu	Val	Thr	Ala	Tyr	Ser	Pro			
225					230					235					240			
Leu	Gly	Ser	Ser	Asp	Arg	Ala	Trp	Arg	Asp	Pro	Asp	Glu	Pro	Val	Leu			
				245					250					255				
Leu	Glu	Glu	Pro	Val	Val	Leu	Ala	Leu	Ala	Glu	Lys	Tyr	Gly	Arg	Ser			
			260					265					270					
Pro	Ala	Gln	Ile	Leu	Leu	Arg	Trp	Gln	Val	Gln	Arg	Lys	Val	Ile	Cys			
		275					280					285						
Ile	Pro	Lys	Ser	Ile	Thr	Pro	Ser	Arg	Ile	Leu	Gln	Asn	Ile	Lys	Val			
	290					295					300							
Phe	Asp	Phe	Thr	Phe	Ser	Pro	Glu	Glu	Met	Lys	Gln	Leu	Asn	Ala	Leu			
305					310					315					320			
Asn	Lys	Asn	Trp	Arg	Tyr	Ile	Val	Pro	Met	Leu	Thr	Val	Asp	Gly	Lys			
				325					330					335				
Arg	Val	Pro	Arg	Asp	Ala	Gly	His	Pro	Leu	Tyr	Pro	Phe	Asn	Asp	Pro			
			340					345					350					
Tyr																		

4130

<210> 4559

<211> 275

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (272)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (273)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4559

Gly	Arg	Val	Gly	Gly	Arg	Val	Gly	Pro	Arg	Asp	Pro	Lys	Ala	Pro	Gly
1				5					10					15	

Gln	Phe	Gly	Arg	Pro	Val	Val	Val	Pro	His	Gly	Lys	Glu	Lys	Glu	Ala
			20					25					30		

Glu	Arg	Arg	Trp	Lys	Glu	Gly	Asn	Phe	Asn	Val	Tyr	Leu	Ser	Asp	Leu
		35					40					45			

Ile	Pro	Val	Asp	Arg	Ala	Ile	Glu	Asp	Thr	Arg	Pro	Ala	Gly	Cys	Ala
	50					55					60				

Glu	Gln	Leu	Val	His	Asn	Asn	Leu	Pro	Thr	Thr	Ser	Val	Ile	Met	Cys
65					70					75				80	

Phe	Val	Asp	Glu	Val	Trp	Ser	Thr	Leu	Leu	Arg	Ser	Val	His	Ser	Val
				85					90					95	

Ile	Asn	Arg	Ser	Pro	Pro	His	Leu	Ile	Lys	Glu	Ile	Leu	Leu	Val	Asp
			100					105					110		

Asp	Phe	Ser	Thr	Lys	Asp	Tyr	Leu	Lys	Asp	Asn	Leu	Asp	Lys	Tyr	Met
		115					120					125			

Ser	Gln	Phe	Pro	Lys	Val	Arg	Ile	Leu	Arg	Leu	Lys	Glu	Arg	His	Gly
	130					135					140				

Leu	Ile	Arg	Ala	Arg	Leu	Ala	Gly	Ala	Gln	Asn	Ala	Thr	Gly	Asp	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

•

```

<210> 4560
<211> 105
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4560
Ala His Leu Ala Ala Ser Leu Pro Leu Gln Ala Gln Pro Ser Ala Met
  1               5               10               15

Ala Cys Pro Leu Asp Gln Ala Ile Gly Leu Leu Val Ala Ile Phe His
      20               25               30

Lys Tyr Ser Gly Arg Glu Gly Asp Lys His Thr Leu Ser Lys Lys Glu
      35               40               45

Leu Lys Glu Leu Ile Gln Lys Glu Leu Thr Xaa Gly Ser Lys Leu Gln
      50               55               60

```

<400> 4560

Ala His Leu Ala Ala Ser Leu Pro Leu Gln Ala Gln Pro Ser Ala Met
1 5 10 15

Ala Cys Pro Leu Asp Gln Ala Ile Gly Leu Leu Val Ala Ile Phe His
20 25 30

Lys Tyr Ser Gly Arg Glu Gly Asp Lys His Thr Leu Ser Lys Lys Glu
35 40 45

Leu Lys Glu Leu Ile Gln Lys Glu Leu Thr Xaa Gly Ser Lys Leu Gln
50 55 60

4132

Asp Ala Glu Ile Ala Arg Leu Met Glu Asp Leu Asp Arg Asn Lys Asp
 65 70 75 80

Gln Glu Val Asn Phe Gln Glu Tyr Val Thr Phe Leu Gly Ala Leu Ala
 85 90 95

Leu Ile Tyr Asn Glu Ala Leu Lys Gly
 100 105

<210> 4561

<211> 176

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4561

Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Ala Ala
 1 5 10 15

Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Ala
 20 25 30

Gly His Glu Lys Leu Pro Val His Val Glu Asp Ala Leu Thr Tyr Leu
 35 40 45

Asp Gln Val Lys Ile Arg Phe Gly Ser Asp Pro Ala Thr Tyr Asn Gly
 50 55 60

Phe Leu Glu Ile Met Lys Glu Phe Lys Ser Gln Ser Ile Asp Thr Pro
 65 70 75 80

Gly Val Ile Arg Arg Val Ser Gln Leu Phe His Glu His Pro Asp Leu
 85 90 95

Ile Val Gly Phe Asn Ala Phe Leu Pro Leu Gly Tyr Arg Ile Asp Ile
 100 105 110

Pro Lys Asn Gly Lys Leu Asn Ile Gln Ser Pro Leu Thr Ser Gln Glu
 115 120 125

Asn Ser His Asn His Gly Asp Gly Ala Glu Asp Phe Lys Gln Gln Val
 130 135 140

Pro Xaa Lys Glu Asp Lys Pro Gln Val Pro Leu Glu Ser Asp Ser Val
 145 150 155 160

4133

Glu Phe Asn Asn Ala Ile Ser Tyr Val Asn Lys Ile Lys Thr Arg Phe
 165 170 175

<210> 4562

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4562

His Glu Xaa Arg Glu His Ala Gly Pro Lys Met Ala Ala Ser Arg Tyr
 1 5 10 15

Arg Arg Phe Leu Lys Leu Cys Glu Glu Trp Pro Val Asp Glu Thr Lys
 20 25 30

Arg Gly Arg Asp Leu Gly Ala Tyr Leu Arg Gln Arg Val Ala Gln Ala
 35 40 45

Phe Arg Glu Gly Glu Asn Thr Gln Val Ala Glu Pro Glu Ala Cys Asp
 50 55 60

Gln Met Tyr Glu Ser Leu Ala Arg Leu His Ser Asn Tyr Tyr Lys His
 65 70 75 80

Lys Tyr Pro Arg Pro Arg Asp Thr Ser Phe Ser Gly Leu Ser Leu Glu
 85 90 95

Glu Tyr Lys Leu Ile Leu Ser Thr Asp Thr Leu Glu Glu Leu Lys Glu
 100 105 110

Ile Asp Lys Gly Met Trp Lys Lys Leu Gln Glu Lys Phe Ala Pro Lys
 115 120 125

Gly Pro Glu Glu Asp His Lys Ala
 130 135

<210> 4563

<211> 283

4134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4563

Lys	Arg	Lys	Ile	Met	Ile	Lys	Arg	His	Glu	Val	Glu	Gln	Gln	Asn	Ile
1				5					10					15	

Arg	Glu	Glu	Leu	Asn	Lys	Lys	Arg	Thr	Gln	Lys	Glu	Met	Glu	His	Ala
			20					25					30		

Met	Leu	Ile	Arg	His	Asp	Glu	Ser	Xaa	Arg	Glu	Leu	Glu	Tyr	Arg	Gln
		35					40					45			

Leu	His	Thr	Leu	Gln	Lys	Leu	Arg	Met	Asp	Leu	Ile	Arg	Leu	Gln	His
	50					55					60				

Gln	Thr	Glu	Leu	Glu	Asn	Gln	Leu	Glu	Tyr	Asn	Lys	Arg	Arg	Glu	Arg
65					70					75					80

Glu	Leu	His	Arg	Lys	His	Val	Met	Glu	Leu	Arg	Gln	Gln	Pro	Lys	Asn
				85					90					95	

Leu	Lys	Ala	Met	Xaa	Met	Gln	Ile	Lys	Lys	Gln	Phe	Gln	Asp	Thr	Cys
			100					105					110		

Lys	Val	Gln	Thr	Lys	Gln	Tyr	Lys	Ala	Leu	Lys	Asn	His	Gln	Leu	Glu
		115					120					125			

Val	Thr	Pro	Lys	Asn	Glu	His	Lys	Thr	Ile	Leu	Lys	Thr	Leu	Lys	Asp
	130					135					140				

Glu	Gln	Thr	Arg	Lys	Leu	Ala	Ile	Leu	Ala	Glu	Gln	Tyr	Glu	Gln	Ser
145					150					155					160

Ile	Asn	Glu	Met	Met	Ala	Ser	Gln	Ala	Leu	Arg	Leu	Asp	Glu	Ala	Gln
			165						170				175		

Glu	Ala	Glu	Cys	Gln	Ala	Leu	Arg	Leu	Gln	Leu	Gln	Gln	Glu	Met	Glu
			180					185					190		

Leu	Leu	Asn	Ala	Tyr	Gln	Ser	Lys	Ile	Lys	Met	Gln	Thr	Glu	Ala	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4135

195	200	205
His Glu Arg Glu Leu Gln Lys Leu Glu Gln Arg Val Ser Leu Arg Arg		
210	215	220
Ala His Leu Glu Gln Lys Ile Glu Glu Glu Leu Ala Ala Leu Gln Lys		
225	230	235
Glu Arg Ser Glu Arg Ile Lys Asn Leu Leu Glu Arg Gln Glu Arg Glu		
245	250	255
Ile Glu Thr Phe Asp Met Glu Ser Leu Arg Met Gly Phe Gly Asn Leu		
260	265	270
Val Thr Leu Asp Phe Pro Lys Glu Asp Tyr Arg		
275	280	

<210> 4564

<211> 465

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (203)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (460)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (461)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4564

Lys Asn Met Glu Thr Glu Gln Pro Glu Glu Thr Phe Pro Asn Thr Glu
1 5 10 15

Thr Asn Gly Glu Phe Gly Lys Arg Pro Ala Glu Asp Met Glu Glu Glu
20 25 30

Gln Ala Phe Lys Arg Ser Arg Asn Thr Asp Glu Met Val Glu Leu Arg
35 40 45

Ile Leu Leu Gln Ser Lys Asn Ala Gly Ala Val Ile Gly Lys Gly Gly
50 55 60

4136

Lys	Asn	Ile	Lys	Ala	Leu	Arg	Thr	Asp	Tyr	Asn	Ala	Ser	Val	Ser	Val	65	70	75	80
Pro	Asp	Ser	Ser	Gly	Pro	Glu	Arg	Ile	Leu	Ser	Ile	Ser	Ala	Asp	Ile	85	90	95	
Glu	Thr	Ile	Gly	Glu	Ile	Leu	Lys	Lys	Ile	Ile	Pro	Thr	Leu	Glu	Glu	100	105	110	
Gly	Leu	Gln	Leu	Pro	Ser	Pro	Thr	Ala	Thr	Ser	Gln	Leu	Pro	Leu	Glu	115	120	125	
Ser	Asp	Ala	Val	Glu	Cys	Leu	Asn	Tyr	Gln	His	Tyr	Lys	Gly	Ser	Asp	130	135	140	
Phe	Asp	Cys	Glu	Leu	Arg	Leu	Leu	Ile	His	Gln	Ser	Leu	Ala	Gly	Gly	145	150	155	160
Ile	Ile	Gly	Val	Lys	Gly	Ala	Lys	Ile	Lys	Glu	Leu	Arg	Glu	Asn	Thr	165	170	175	
Gln	Thr	Thr	Ile	Lys	Leu	Phe	Gln	Glu	Cys	Cys	Pro	His	Ser	Thr	Asp	180	185	190	
Arg	Val	Val	Leu	Ile	Gly	Gly	Lys	Pro	Asp	Xaa	Val	Val	Glu	Cys	Ile	195	200	205	
Lys	Ile	Ile	Leu	Asp	Leu	Ile	Ser	Glu	Ser	Pro	Ile	Lys	Gly	Arg	Ala	210	215	220	
Gln	Pro	Tyr	Asp	Pro	Asn	Phe	Tyr	Asp	Glu	Thr	Tyr	Asp	Tyr	Gly	Gly	225	230	235	240
Phe	Thr	Met	Met	Phe	Asp	Asp	Arg	Arg	Gly	Arg	Pro	Val	Gly	Phe	Pro	245	250	255	
Met	Arg	Gly	Arg	Gly	Gly	Phe	Asp	Arg	Met	Pro	Pro	Gly	Arg	Gly	Gly	260	265	270	
Arg	Pro	Met	Pro	Pro	Ser	Arg	Arg	Asp	Tyr	Asp	Asp	Met	Ser	Pro	Arg	275	280	285	
Arg	Gly	Pro	Pro	Pro	Pro	Pro	Pro	Gly	Arg	Gly	Gly	Arg	Gly	Gly	Ser	290	295	300	
Arg	Ala	Arg	Asn	Leu	Pro	Leu	Pro	Pro	Pro	Pro	Pro	Pro	Arg	Gly	Gly	305	310	315	320
Asp	Leu	Met	Ala	Tyr	Asp	Arg	Arg	Gly	Arg	Pro	Gly	Asp	Arg	Tyr	Asp	325	330	335	

4137

Gly Met Val Gly Phe Ser Ala Asp Glu Thr Trp Asp Ser Ala Ile Asp
 340 345 350
 Thr Trp Ser Pro Ser Glu Trp Gln Met Ala Tyr Glu Pro Gln Gly Gly
 355 360 365
 Ser Gly Tyr Asp Tyr Ser Tyr Ala Gly Gly Arg Gly Ser Tyr Gly Asp
 370 375 380
 Leu Gly Gly Pro Ile Ile Thr Thr Gln Val Thr Ile Pro Lys Asp Leu
 385 390 395 400
 Ala Gly Ser Ile Ile Gly Lys Gly Gly Gln Arg Ile Lys Gln Ile Arg
 405 410 415
 His Glu Ser Gly Ala Ser Ile Lys Ile Asp Glu Pro Leu Glu Gly Ser
 420 425 430
 Glu Asp Arg Ile Ile Thr Ile Thr Gly Thr Gln Asp Gln Ile Gln Asn
 435 440 445
 Ala Gln Tyr Leu Leu Gln Asn Ser Val Ser Ser Xaa Xaa Leu Ala Leu
 450 455 460
 Cys
 465

<210> 4565

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4565

Gln Leu Gly Pro Val Val Gly Gly Trp Tyr Lys Val Leu Asp Arg Phe
 1 5 10 15
 Ile Pro Gly Thr Thr Lys Val Asp Ala Leu Lys Lys Met Leu Leu Asp
 20 25 30
 Gln Gly Gly Phe Ala Pro Cys Phe Leu Gly Cys Phe Leu Pro Leu Val
 35 40 45
 Gly Ala Leu Asn Gly Leu Ser Ala Gln Asp Asn Trp Pro Asn Tyr Ser

4138

50 55 60
 Gly Ile Ile Leu Met Pro Leu Ser Pro Thr Thr Ile Tyr Gly Leu Leu
 65 70 75 80

Cys Xaa

<210> 4566
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 4566
 Glu Gln Lys Ser Ile Gln Asp Leu Gln Ala Leu Leu Trp Met Arg Leu
 1 5 10 15
 Ile Thr Met Glu Ala Ser Asn Thr His Leu Ser Met Ala Leu Ile Phe
 20 25 30
 Ser Thr Ser Trp Pro Leu Lys Met Thr Tyr Asn Phe Ser Val Cys Phe
 35 40 45
 Thr Ile Phe Tyr Lys Glu Asn Ser Ile Leu Trp Leu Ile Glu His
 50 55 60

<210> 4567
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 4567
 Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Gln Arg Arg Gly Gly
 1 5 10 15
 Val Arg Glu Asn Met Leu Val Lys Tyr Ala Gly Arg Leu Gly Asp Thr
 20 25 30
 Lys Gln Arg Phe Arg His Ser Lys Ala Gly Met Arg Ser Ser Lys Leu
 35 40 45
 Cys Phe Asn Lys Leu His Trp Arg Val Pro Tyr Ser Leu Lys Phe Gly
 50 55 60
 Asn His Asp Pro Glu Pro Gly Trp Ala
 65 70

4139

<210> 4568

<211> 98

<212> PRT

<213> Homo sapiens

<400> 4568

Arg Thr Lys Asn Lys Thr Leu Ile Pro Thr Phe Ile Ser Thr Leu Ala
 1 5 10 15

Lys Thr Gly Leu Ala Phe Phe Ser Asn Ser Ser Phe Ile Ser Ser Leu
 20 25 30

Pro Cys Pro Ser Leu Pro Phe Leu Ser Gly Ile Gly Ser Val Leu Pro
 35 40 45

Ile His Met Ala Ala Ser Leu Ile Ala Leu Val Gln Gly Ile Arg Tyr
 50 55 60

Cys Ala Phe Trp Cys Gln Val Gln Ser Gln Val Pro Ile Tyr Glu Pro
 65 70 75 80

Val Tyr Lys Lys Lys Lys Ile Gln Val Phe Glu Gly Glu Thr Leu His
 85 90 95

Cys Glu

<210> 4569

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4569

Ala Leu Gly Phe Ser Ala Glu Gly Ala Pro Phe Pro Leu Asp Gly Ser
 1 5 10 15

Cys His Val Ile Phe Glu Asn Ser Trp Thr Ala Pro Glu Glu Ala Leu
 20 25 30

Phe Ser Ser Arg Lys Leu Asp Gly Gly Ser Gln Lys Trp Leu Ile Gly
 35 40 45

4140

Arg Gly Gln Ala Ser Phe Gln Gly Ser Ala Val Pro Ser Trp Phe Arg
 50 55 60
 Glu Gly Arg Ala Trp Leu Ser Leu Ala Leu Ser Leu Ser Pro Cys Leu
 65 70 75 80
 Ser Ile Thr Thr Phe Pro Pro Glu Glu Xaa Asn Tyr Leu Pro Cys Lys
 85 90 95
 Ala Arg Phe Tyr Thr Asp Phe Thr Asn Cys Ala Lys Asn Arg Pro Cys
 100 105 110
 Ser Gln Lys Ala Gln Cys Phe Cys Lys Glu
 115 120

<210> 4570
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 4570
 Pro Ser Cys Gln Arg Pro Lys Ser Val Ser Trp Cys His Val His Thr
 1 5 10 15
 Pro Cys His Phe Thr Leu His Leu Ser Pro Ser Phe Pro Met His Ala
 20 25 30
 Tyr Ser Glu His Pro Cys Val Gly Pro Ser Ser Ala Ser Arg Ala Cys
 35 40 45
 Ser Ala Val Gly Leu Phe Cys Gly Arg Lys Glu Ala Val Ser Ala Phe
 50 55 60
 Ser Asp Gly Thr Gly Val Glu Gly Arg Ser Cys Ile Val Ala Leu Leu
 65 70 75 80
 Asn Ser Pro Phe Cys Ser Ile Leu Val
 85

<210> 4571
 <211> 148
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)

4141

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4571

Ser	Asn	Val	Ile	Arg	Asn	Glu	Gln	Leu	Pro	Leu	Gln	Tyr	Leu	Ala	Asp
1				5					10					15	

Val	Asp	Thr	Ser	Asp	Glu	Glu	Ser	Ile	Arg	Ala	His	Val	Met	Ala	Ser
			20					25					30		

His	His	Ser	Lys	Arg	Arg	Gly	Arg	Ala	Ser	Ser	Glu	Ser	Gln	Gly	Leu
		35					40					45			

Gly	Ala	Xaa	Xaa	Arg	Thr	Xaa	Ala	Asp	Val	Glu	Glu	Glu	Ala	Leu	Arg
	50					55					60				

Arg	Lys	Leu	Glu	Glu	Leu	Thr	Ser	Asn	Val	Ser	Asp	Gln	Glu	Thr	Ser
65					70					75					80

Ser	Glu	Glu	Glu	Glu	Ser	Lys	Asp	Glu	Lys	Ala	Glu	Pro	Asn	Arg	Asp
				85					90					95	

Lys	Ser	Val	Gly	Pro	Leu	Pro	Gln	Ala	Asp	Pro	Glu	Val	Ala	Arg	Leu
			100					105					110		

Pro	Ile	Lys	Pro	Thr	Asp	Arg	Lys	Lys	Ala	Pro	Arg	Thr	Leu	Gly	Thr
		115					120					125			

Pro	Ser	Ser	Thr	Thr	Gly	Pro	Gln	Met	Arg	Ser	Cys	Gln	Ser	Trp	Arg
	130					135					140				

Thr	Glu	Trp	Gln
145			

<210> 4572

<211> 231

<212> PRT

<213> Homo sapiens

<400> 4572

4142

Ala Leu Ser Pro Ala Met Val Val Pro Glu Asp Gln Leu Thr Arg Trp
 1 5 10 15
 His Pro Arg Phe Asn Val Asp Glu Val Pro Asp Ile Glu Pro Ala Ala
 20 25 30
 Leu Pro Gln Pro Pro Ala Thr Glu Lys Leu Thr Thr Ala Gln Glu Val
 35 40 45
 Leu Ala Arg Ala Arg Asn Leu Ile Ser Pro Arg Met Glu Lys Ala Leu
 50 55 60
 Ser Gln Leu Ala Leu Arg Ser Ala Ala Pro Ser Ser Pro Gly Ser Pro
 65 70 75 80
 Arg Pro Ala Leu Pro Ala Thr Pro Pro Ala Thr Pro Pro Ala Ala Ser
 85 90 95
 Pro Ser Ala Leu Lys Gly Val Ser Gln Asp Leu Leu Glu Arg Ile Arg
 100 105 110
 Ala Lys Glu Ala Gln Lys Gln Leu Ala Gln Met Thr Arg Cys Pro Glu
 115 120 125
 Gln Glu Gln Arg Leu Gln Arg Leu Glu Arg Leu Pro Glu Leu Ala Arg
 130 135 140
 Val Leu Arg Ser Val Phe Val Ser Glu Arg Lys Pro Ala Leu Ser Met
 145 150 155 160
 Glu Val Ala Cys Ala Arg Met Val Gly Ser Cys Cys Thr Ile Met Ser
 165 170 175
 Pro Gly Glu Met Glu Lys His Leu Leu Leu Leu Ser Glu Leu Leu Pro
 180 185 190
 Asp Trp Leu Ser Leu His Arg Ile Arg Thr Asp Thr Tyr Val Lys Leu
 195 200 205
 Asp Lys Ala Ala Asp Leu Ala His Ile Thr Ala Arg Leu Ala His Gln
 210 215 220
 Thr Arg Ala Glu Glu Gly Leu
 225 230

<210> 4573

<211> 102

<212> PRT

<213> Homo sapiens

4143

<400> 4573

```

Asp Pro Arg Val Arg His Ala Ser Gly Gly Phe Ser Leu Gly Gly Gln
 1              5              10              15

Thr Lys Trp Gln Trp Gly Pro Gly Cys Pro Leu Leu Arg Asn Gly Glu
              20              25              30

Leu Phe Ser Pro Val Leu Leu Trp Gly Leu Pro Cys Gly Thr Lys Cys
              35              40              45

Leu Gly Glu Glu Leu Leu Ala Gly Leu Gln Leu Leu Phe Val Arg Gly
 50              55              60

Gln Leu Gly Leu Val His Pro Cys Ser Glu Leu Ala Pro Lys Arg Ala
 65              70              75              80

Met Leu Asn Ser Ser Pro Ser Pro Ser Arg Gln Pro Leu Ser Leu His
              85              90              95

Ala Arg Gly Ile Gln Leu
              100

```

<210> 4574

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4574

```

Arg Ser Ile Gly Gly Phe Phe Pro Ala Gly Leu Thr Thr Leu Leu Ser
 1              5              10              15

Gly Leu Lys Pro Phe His Thr Phe Ile Leu Phe Phe Asn Gln Lys Ser
              20              25              30

Phe Ser Tyr Lys Ile Asn Phe Gly Gln Thr Xaa Lys Lys Lys Lys Lys
 35              40              45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys

```

4144

50 55 60
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 65 70 75 80
 Lys Lys Lys Lys Gly Gly Pro Xaa
 85

 <210> 4575
 <211> 240
 <212> PRT
 <213> Homo sapiens

 <400> 4575
 Pro Thr Ala His Cys Arg Arg Leu Gly Ala Ala Glu Ala Arg Gly Ala
 1 5 10 15
 Arg Ser Trp Arg Leu Pro Val Pro Arg Leu Cys Arg Pro His Ser Arg
 20 25 30
 Gly Ala Lys Gly Gly Arg Pro Ala Ser Gly Pro Leu Pro Ser Leu Ser
 35 40 45
 Leu Arg Cys Cys Glu Arg Arg Pro Leu Arg Arg Arg Pro Ala Thr Gly
 50 55 60
 Ala Met Ser Ala Asn Glu Asp Gln Glu Met Glu Leu Glu Ala Leu Arg
 65 70 75 80
 Ser Ile Tyr Glu Gly Asp Glu Ser Phe Arg Glu Leu Ser Pro Val Ser
 85 90 95
 Phe Gln Tyr Arg Ile Gly Glu Asn Gly Asp Pro Lys Ala Phe Leu Ile
 100 105 110
 Glu Ile Ser Trp Thr Glu Thr Tyr Pro Gln Thr Pro Pro Ile Leu Ser
 115 120 125
 Met Asn Ala Phe Phe Asn Asn Thr Ile Ser Ser Ala Val Lys Gln Ser
 130 135 140
 Ile Leu Ala Lys Leu Gln Glu Ala Val Glu Ala Asn Leu Gly Thr Ala
 145 150 155 160
 Met Thr Tyr Thr Leu Phe Glu Tyr Ala Lys Asp Asn Lys Glu Gln Phe
 165 170 175
 Met Glu Asn His Asn Pro Ile Asn Ser Ala Thr Ser Ile Ser Asn Ile
 180 185 190

4145

Ile Ser Ile Glu Thr Pro Asn Thr Ala Pro Ser Ser Lys Lys Lys Asp
 195 200 205

Lys Lys Glu Gln Leu Ser Lys Ala Gln Lys Arg Asn Trp Gln Thr Lys
 210 215 220

Gln Ile Thr Lys Glu Asn Phe Leu Glu Ala Gly Thr Gly Leu Met Leu
 225 230 235 240

<210> 4576

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4576

Asp Ala Trp Xaa Xaa Lys Lys Glu Lys Glu Lys Glu Lys Lys Arg Lys
 1 5 10 15

Gly Thr Ser Asp Met Thr Ala Cys Met Lys Ser Asn Arg Val Thr Pro
 20 25 30

Val Lys Leu Lys Ser Arg Ala Val Asp Ile Leu Ser Asn Gln Gln Glu
 35 40 45

Val Ser Arg Asn Gln Ala Val Gln Leu Leu Leu Ser Ala Ile Val Ser
 50 55 60

Ser Gln Lys Met His Asp Asp Gly Val Val Gly Glu Gly Gln Phe Ser
 65 70 75 80

Ile Leu Phe Lys Ser Lys Leu Pro Glu
 85

4146

<210> 4577

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4577

Pro	Thr	Arg	Pro	Met	Val	Ser	Ser	Ile	Gln	Ala	Ser	Met	Asp	Arg	His
1				5					10					15	

Leu	Arg	Asp	Gln	Ser	Thr	Glu	Gln	Ser	Pro	Ser	Asp	Leu	Pro	Gln	Arg
			20					25					30		

Xaa	Thr	Glu	Val	Val	Ser	Ser	Ser	Ala	Lys	Ser	Gly	Ser	Leu	Gln	Thr
			35				40					45			

Gly	Leu	Pro	Glu	Ser	Phe	Pro	Leu	Thr	Gly	Gly	Thr	Glu	Asn	Leu	Asn
	50					55					60				

Thr	Glu	Thr	Thr	Asp	Gly	Cys	Val	Ala	Asp	Ala	Leu	Gly	Ala	Ala	Phe
65					70					75					80

Ala	Thr	Arg	Ser	Lys	Ala	Gln	Arg	Gly	Asn	Ser	Val	Glu	Glu	Leu	Glu
				85					90					95	

Glu	Met	Asp	Ser	Gln	Asp	Ala	Glu	Met	Thr	Asn	Thr	Thr	Glu	Pro	Met
			100					105					110		

Asp	His	Ser
		115

<210> 4578

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

4147

<400> 4578

```

Leu Lys Asn His Gln Lys Thr His Thr Ser Glu Lys Ser Tyr Lys Cys
 1              5              10              15

Asn Glu Cys Arg Lys Ala Phe Ser Tyr Cys Ser Gly Leu Ile Gln Cys
          20              25              30

Gln Val Ile His Thr Ile Glu Lys Pro Tyr Glu Tyr Gly Lys Cys Gly
          35              40              45

Lys Ala Phe Arg Gln Arg Thr Asp Leu Lys Lys His Gln Lys Met His
          50              55              60

Thr Glu Glu Lys Pro Tyr Glu Cys Asn Glu Cys Gly Lys Ala Phe Ser
        65              70              75              80

Gln Ser Thr Tyr Leu Thr Lys His Gln Lys Ile His Ser Glu Glu Lys
          85              90              95

Ser Asn Ile His Thr Glu Cys Gly Glu Thr Xaa Xaa Gln Asn Ser Ser
          100              105              110

Phe Leu Gln Gln
          115

```

<210> 4579

<211> 598

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4579

```

Ala Thr Ser Arg Gln Pro Ser Tyr Xaa Arg Thr Trp Cys Arg Arg Cys
 1              5              10              15

Cys Leu Pro Leu Ala Leu Asn Pro Val Pro Ala Ala Met Ala Pro Gly
          20              25              30

Gln Leu Ala Leu Phe Ser Val Ser Asp Lys Thr Gly Leu Val Glu Phe

```

4148

35	40	45
Ala Arg Asn Leu Thr Ala Leu Gly Leu Asn Leu Val Ala Ser Gly Gly		
50	55	60
Thr Ala Lys Ala Leu Arg Asp Ala Gly Leu Ala Val Arg Asp Val Ser		
65	70	75 80
Glu Leu Thr Gly Phe Pro Glu Met Leu Gly Gly Arg Val Lys Thr Leu		
	85	90 95
His Pro Ala Val His Ala Gly Ile Leu Ala Arg Asn Ile Pro Glu Asp		
	100	105 110
Asn Ala Asp Met Ala Arg Leu Asp Phe Asn Leu Ile Arg Val Val Ala		
	115	120 125
Cys Asn Leu Tyr Pro Phe Val Lys Thr Val Ala Ser Pro Gly Val Xaa		
	130	135 140
Val Glu Glu Ala Val Glu Gln Ile Asp Ile Gly Gly Val Thr Leu Leu		
145	150	155 160
Arg Ala Ala Ala Lys Asn His Ala Arg Val Thr Val Val Cys Glu Pro		
	165	170 175
Glu Asp Tyr Val Val Val Ser Thr Glu Met Gln Ser Ser Glu Ser Lys		
	180	185 190
Asp Thr Ser Leu Glu Thr Arg Arg Gln Leu Ala Leu Lys Ala Phe Thr		
	195	200 205
His Thr Ala Gln Tyr Asp Glu Ala Ile Ser Asp Tyr Phe Arg Lys Gln		
	210	215 220
Tyr Ser Lys Gly Val Ser Gln Met Pro Leu Arg Tyr Gly Met Asn Pro		
225	230	235 240
His Gln Thr Pro Ala Gln Leu Tyr Thr Leu Gln Pro Lys Leu Pro Ile		
	245	250 255
Thr Val Leu Asn Gly Ala Pro Gly Phe Ile Asn Leu Cys Asp Ala Leu		
	260	265 270
Asn Ala Trp Gln Leu Val Lys Glu Leu Lys Glu Ala Leu Gly Ile Pro		
	275	280 285
Ala Ala Ala Ser Phe Lys His Val Ser Pro Ala Gly Ala Ala Val Gly		
	290	295 300
Ile Pro Leu Ser Glu Asp Glu Ala Lys Val Cys Met Val Tyr Asp Leu		

4149

305		310		315		320
Tyr Lys Thr Leu Thr Pro Ile Ser Ala Ala Tyr Ala Arg Ala Arg Gly						
	325		330		335	
Ala Asp Arg Met Ser Ser Phe Gly Asp Phe Val Ala Leu Ser Asp Val						
	340		345		350	
Cys Asp Val Pro Thr Ala Lys Ile Ile Ser Arg Glu Val Ser Asp Gly						
	355		360		365	
Ile Ile Ala Pro Gly Tyr Glu Glu Glu Ala Leu Thr Ile Leu Ser Lys						
	370		375		380	
Lys Lys Asn Gly Asn Tyr Cys Val Leu Gln Met Asp Gln Ser Tyr Lys						
	385		390		395	400
Pro Asp Glu Asn Glu Val Arg Thr Leu Phe Gly Leu His Leu Ser Gln						
	405		410		415	
Lys Arg Asn Asn Gly Val Val Asp Lys Ser Leu Phe Ser Asn Val Val						
	420		425		430	
Thr Lys Asn Lys Asp Leu Pro Glu Ser Ala Leu Arg Asp Leu Ile Val						
	435		440		445	
Ala Thr Ile Ala Val Lys Tyr Thr Gln Ser Asn Ser Val Cys Tyr Ala						
	450		455		460	
Lys Asn Gly Gln Val Ile Gly Ile Gly Ala Gly Gln Gln Ser Arg Ile						
	465		470		475	480
His Cys Thr Arg Leu Ala Gly Asp Lys Ala Asn Tyr Trp Trp Leu Arg						
	485		490		495	
His His Pro Gln Val Leu Ser Met Lys Phe Lys Thr Gly Val Lys Arg						
	500		505		510	
Ala Glu Ile Ser Asn Ala Ile Asp Gln Tyr Val Thr Gly Thr Ile Gly						
	515		520		525	
Glu Asp Glu Asp Leu Ile Lys Trp Lys Ala Leu Phe Glu Glu Val Pro						
	530		535		540	
Glu Leu Leu Thr Glu Ala Glu Lys Lys Glu Trp Val Glu Lys Leu Thr						
	545		550		555	560
Glu Val Ser Ile Ser Ser Asp Ala Phe Phe Pro Phe Arg Asp Asn Val						
	565		570		575	
Asp Arg Ala Lys Arg Ser Gly Val Ala Tyr Ile Ala Ala Pro Pro Val						

4150

580

585

590

Leu Leu Leu Thr Lys Leu
595

<210> 4580

<211> 48

<212> PRT

<213> Homo sapiens

<400> 4580

Cys Ile Ser Lys Gly Glu Lys Arg Ile Gly Ile Phe Leu Phe Asn Ile
1 5 10 15

Gln Phe Ile Glu Ser Ser Thr Leu Ile Phe Leu Asn Pro Arg Ser Ser
20 25 30

Gly Ser Tyr His Phe Lys Arg Asn Tyr His Gln Phe Cys Val Ser Lys
35 40 45

<210> 4581

<211> 50

<212> PRT

<213> Homo sapiens

<400> 4581

His Val Phe Leu Pro Cys Ser Leu Pro Gly Arg Met Glu Phe Tyr Ile
1 5 10 15

Thr Thr Phe Leu Cys Lys Asn Asn Gly Arg Val Glu Leu Val Val Ile
20 25 30

Leu Ala Phe His Leu Ala Leu Val Ser Ser Ile Gly Leu Glu Ile Ile
35 40 45

Gly Arg
50

<210> 4582

<211> 45

<212> PRT

<213> Homo sapiens

4151

<400> 4582

Gly Leu Met Glu Ile Glu Ile Thr Cys Lys Asp Ile Thr Val Phe Met
 1 5 10 15

Ser Tyr Ile Leu Val Leu Glu Ile Val Glu Cys Met Ile Asp Asn Ile
 20 25 30

Phe Leu Ile Phe Ile Phe Ser Ser Asn Thr Ser Thr Val
 35 40 45

<210> 4583

<211> 125

<212> PRT

<213> Homo sapiens

<400> 4583

Asn Asp Ser Asn Thr Ala Leu Leu His His Glu Thr Asn Pro Gly Gln
 1 5 10 15

Asp Pro Ile Pro Ser His Gln Pro Thr Ser Leu Leu Ala Ala Gly Gln
 20 25 30

Asp Val Ala Ser Ile Thr Phe His Cys Leu Ser Pro Trp Glu Ala Ala
 35 40 45

Gln Leu Arg Leu Gly Thr Arg Pro Pro Leu Leu Gly Pro Thr Gly Lys
 50 55 60

Ser Val Ala Ala Thr Ala Trp Leu Thr Phe Leu Ser Ser Leu Gly Ser
 65 70 75 80

Gly Thr Ala Pro Pro Cys Pro Trp Leu Gly Arg Gly Glu Lys Lys Leu
 85 90 95

Ser Tyr Ala Phe Pro Leu Pro Leu Val Tyr Arg Thr Ser Leu Pro Ser
 100 105 110

Gln Gln Glu Arg Arg Pro Pro Gly Val Ser Pro Gly Gln
 115 120 125

<210> 4584

<211> 342

<212> PRT

<213> Homo sapiens

<220>

4152

<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

4153

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (279)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4584

Ile	Thr	Trp	Pro	Thr	Thr	Gly	Pro	Xaa	Ala	Leu	Asn	Leu	Gln	Ala	His
1				5				10					15		

Trp	Xaa	Gly	Pro	Gly	Ser	Ala	Arg	Xaa	Ala	Xaa	His	His	Leu	Glu	Tyr
			20					25					30		

Arg	Cys	Ala	Pro	Arg	Pro	Pro	Ala	Val	Cys	Trp	His	Xaa	Val	Xaa	Arg
		35					40					45			

Gly	Ala	Lys	Xaa	Xaa	Ala	Xaa	Ala	Gln	Ser	Xaa	Xaa	Xaa	Asp	Thr	Cys
	50					55					60				

Ser	Val	Gln	Asn	Gly	Glu	Asp	Asp	Gly	Arg	Asn	Gln	Ala	Arg	Leu	Gly
65					70					75					80

His	Arg	Gly	Thr	Leu	Ala	Leu	Gly	Ser	Leu	Leu	Ala	Gln	Gly	Phe	Asn
				85					90					95	

Val	Arg	Leu	Ser	Gly	Gln	Asp	Val	Gly	Arg	Gly	Thr	Phe	Ser	Gln	Arg
			100					105					110		

His	Ala	Met	Val	Val	Cys	Gln	Glu	Thr	Asp	Asp	Thr	Tyr	Ile	Pro	Leu
		115					120					125			

Asn	His	Met	Asp	Pro	Asn	Gln	Lys	Gly	Phe	Leu	Glu	Val	Ser	Asn	Ser
		130				135					140				

Pro	Leu	Ser	Glu	Glu	Ala	Val	Leu	Gly	Phe	Glu	Tyr	Gly	Met	Ser	Ile
145					150					155					160

Glu	Ser	Pro	Lys	Leu	Leu	Pro	Leu	Trp	Glu	Ala	Gln	Phe	Gly	Asp	Phe
				165					170					175	

Phe	Asn	Gly	Ala	Gln	Ile	Ile	Phe	Asp	Thr	Phe	Ile	Ser	Gly	Gly	Glu
			180					185					190		

Ala	Lys	Trp	Leu	Leu	Gln	Ser	Gly	Ile	Val	Ile	Leu	Leu	Pro	His	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4154

195		200		205
Tyr Asp Gly Ala Gly Pro Asp His Ser Ser Cys Arg Ile Glu Arg Phe				
210		215		220
Leu Gln Met Cys Asp Ser Ala Glu Glu Gly Val Asp Gly Asp Thr Val				
225		230		235
Asn Met Phe Val Val His Pro Thr Thr Pro Ala Gln Tyr Phe His Leu				
		245		250
Leu Arg Arg Gln Met Val Arg Asn Phe Arg Lys Pro Leu Ile Val Ala				
		260		265
Ser Pro Lys Met Leu Leu Xaa Leu Pro Ala Ala Val Ser Thr Leu Gln				
		275		280
Glu Met Ala Pro Gly Thr Thr Phe Asn Pro Val Ile Gly Asp Ser Ser				
		290		295
Val Asp Pro Lys Lys Val Lys Thr Leu Val Phe Cys Ser Gly Lys His				
305		310		315
Phe Tyr Ser Leu Val Asn Lys Glu Asn Leu Trp Gly Pro Arg Ser Met				
		325		330
Thr Leu Pro Ser Ser Glu				
		340		

<210> 4585

<211> 59

<212> PRT

<213> Homo sapiens

<400> 4585

Asn Leu Tyr Lys Leu Lys Leu Asn His Glu Leu Gln Lys Lys Ser Ile
1 5 10 15
Leu Pro Lys Leu Asp Val Thr Thr Leu Thr Ser Leu Lys Tyr Glu Val
20 25 30
Asp Cys Leu Lys Asp Ser Ala Tyr Ile Leu Val Cys Thr Phe Arg Asn
35 40 45
Ile Phe Leu Gly Lys Ser Thr Gln His Phe Leu
50 55

4155

<210> 4586

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4586

Val	His	Leu	Lys	Ala	Val	Lys	Met	Val	Leu	Ala	Asp	Leu	Gly	Arg	Lys
1				5					10					15	

Ile	Thr	Ser	Ala	Leu	Arg	Ser	Leu	Ser	Asn	Ala	Thr	Ile	Ile	Asn	Glu
			20					25						30	

Glu	Val	Cys	Lys	Ile	Leu	Tyr	Xaa	Ile	Tyr	Met	Ile	Val	Leu	Leu	Ser
		35					40					45			

Leu	Ala	Leu	Gly	Arg	Trp	Leu	Ile	His	Asn	Pro	Arg	Ile	Tyr	Met	Tyr
	50					55					60				

Phe	Xaa	Val	Asp	Leu	Ile	Leu	Val	Gly	Lys	Ser	Pro	Lys	Gly	Leu	Thr
65					70					75				80	

Val	Gly	Gly	Val	Tyr	Trp	Gly	Ile	Thr	Xaa	Asn	Ser	Asn	Tyr	Phe	Asn
				85					90					95	

Leu Pro

<210> 4587

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4156

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4587

Gly	Lys	Leu	Gly	Met	Leu	Gly	Gln	Glu	Gly	Lys	Val	Leu	Val	Asn	Pro
1				5					10					15	

Leu	Trp	Ser	Asn	Ile	Met	Lys	Val	Asn	Tyr	Asn	Ser	Ile	Tyr	Leu	Ser
			20					25				30			

Leu	Met	Pro	Gln	Ser	Glu	Ile	Xaa	Tyr	Xaa	Leu	Gly	Gly	His	Gly	Cys
		35					40					45			

Ala	Pro	Ile	Gln	Tyr	Thr	Phe	Xaa	Gly	Xaa	Asn	Leu	Phe	Ser	Asp	His
	50					55					60				

Phe	Met	Glu	Ser	Leu	Lys	Tyr	Leu
65					70		

<210> 4588

<211> 385

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4588

Trp	Ile	Pro	Arg	Ala	Ala	Gly	Phe	Gly	Thr	Arg	Pro	Leu	Pro	Gly	Ala
1				5					10					15	

Ala	Gly	Gly	Ala	Ala	Gly	Cys	Thr	Gln	Arg	Arg	Ser	Arg	Glu	Leu	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4157

20	25	30
Ala Ala Ala Met Ser His Gln Thr Gly Ile Gln Ala Ser Glu Asp Val		
35	40	45
Lys Glu Ile Phe Ala Arg Ala Arg Asn Gly Lys Tyr Arg Leu Leu Lys		
50	55	60
Ile Ser Ile Glu Asn Glu Gln Leu Val Ile Gly Ser Tyr Ser Gln Pro		
65	70	75
Ser Asp Ser Trp Asp Lys Asp Tyr Asp Ser Phe Val Leu Pro Leu Leu		
	85	90
Glu Asp Lys Gln Pro Cys Tyr Ile Leu Phe Arg Leu Asp Ser Gln Asn		
	100	105
Ala Gln Gly Tyr Glu Trp Ile Phe Ile Ala Trp Ser Pro Asp His Ser		
	115	120
His Val Arg Gln Lys Met Leu Tyr Ala Ala Thr Arg Ala Thr Leu Lys		
	130	135
Lys Glu Phe Gly Gly Gly His Ile Lys Asp Glu Val Phe Gly Thr Val		
145	150	155
Lys Glu Asp Val Ser Leu His Gly Tyr Lys Lys Tyr Leu Leu Ser Gln		
	165	170
Ser Ser Pro Ala Pro Leu Thr Ala Ala Glu Glu Glu Leu Arg Gln Ile		
	180	185
Lys Ile Asn Glu Val Gln Thr Asp Val Gly Val Asp Thr Lys His Gln		
	195	200
Thr Leu Gln Gly Val Ala Phe Pro Ile Ser Arg Glu Xaa Phe Gln Ala		
	210	215
Leu Glu Lys Leu Asn Asn Arg Gln Leu Asn Tyr Val Gln Leu Glu Ile		
225	230	235
Asp Ile Lys Asn Glu Ile Ile Ile Leu Ala Asn Thr Thr Asn Thr Glu		
	245	250
Leu Lys Asp Leu Pro Lys Arg Ile Pro Lys Asp Ser Ala Arg Tyr His		
	260	265
Phe Phe Leu Tyr Lys His Ser His Glu Gly Asp Tyr Leu Glu Ser Ile		
	275	280
Val Phe Ile Tyr Ser Met Pro Gly Tyr Thr Cys Ser Ile Arg Glu Arg		

4158

290 295 300
 Met Leu Tyr Ser Ser Cys Lys Ser Arg Leu Leu Glu Ile Val Glu Arg
 305 310 315 320
 Gln Leu Gln Met Asp Val Ile Arg Lys Ile Glu Ile Asp Asn Gly Asp
 325 330 335
 Glu Leu Thr Ala Asp Phe Leu Tyr Glu Glu Val His Pro Lys Gln His
 340 345 350
 Ala His Lys Gln Ser Phe Ala Lys Pro Lys Gly Pro Ala Gly Lys Arg
 355 360 365
 Gly Ile Arg Arg Leu Ile Arg Gly Pro Ala Glu Thr Glu Ala Thr Thr
 370 375 380
 Asp
 385

<210> 4589

<211> 270

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4589

Ser Val Thr Leu Glu Met Glu Ser Lys Leu Ala Ala Glu Lys Lys Gln
 1 5 10 15
 Thr Glu Gln Leu Ser Leu Glu Leu Glu Val Ala Arg Leu Gln Leu Gln
 20 25 30
 Gly Leu Asp Leu Ser Ser Arg Ser Leu Leu Gly Ile Xaa Thr Glu Asp
 35 40 45
 Ala Ile Gln Gly Arg Asn Glu Ser Cys Asp Ile Ser Lys Glu His Thr
 50 55 60
 Ser Glu Thr Thr Glu Arg Thr Pro Lys His Asp Val His Gln Ile Cys
 65 70 75 80
 Asp Lys Asp Ala Gln Gln Asp Leu Asn Leu Asp Ile Glu Lys Ile Thr
 85 90 95

4159

Glu Thr Gly Ala Val Lys Pro Thr Gly Glu Cys Ser Gly Glu Gln Ser
 100 105 110
 Pro Asp Thr Asn Tyr Glu Pro Pro Gly Glu Asp Lys Thr Gln Gly Ser
 115 120 125
 Ser Glu Cys Ile Ser Glu Leu Ser Phe Ser Gly Pro Asn Ala Leu Val
 130 135 140
 Pro Met Asp Phe Leu Gly Asn Gln Glu Asn Ile Gln Asn Leu Gln Leu
 145 150 155 160
 Arg Val Lys Glu Thr Ser Asn Glu Asn Leu Arg Leu Leu His Val Ile
 165 170 175
 Glu Asp Arg Asp Arg Lys Val Glu Ser Leu Leu Asn Glu Met Lys Glu
 180 185 190
 Leu Asp Ser Lys Leu His Leu Gln Glu Val Gln Leu Met Thr Lys Ile
 195 200 205
 Glu Ala Cys Ile Glu Leu Glu Lys Ile Val Gly Glu Leu Lys Lys Glu
 210 215 220
 Asn Ser Asp Leu Ser Glu Lys Leu Glu Tyr Phe Ser Cys Asp His Gln
 225 230 235 240
 Glu Leu Leu Gln Arg Val Glu Thr Ser Glu Gly Leu Asn Ser Asp Leu
 245 250 255
 Glu Met His Ala Asp Lys Ser Ser Arg Glu Asp Ile Gly Arg
 260 265 270

<210> 4590

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4590

Ser Ser Val Pro Pro Lys Lys Lys Leu Ala Glu Lys Asp Xaa Lys Lys
 1 5 10 15

Leu Phe Gly Val Cys Ser Cys Ala Val His Phe Phe Arg Phe Asn Val
 20 25 30

4160

Leu Cys Arg
35

<210> 4591

<211> 173

<212> PRT

<213> Homo sapiens

<400> 4591

Ser Pro Ala Arg Pro Leu Ile Arg Ser Asp Lys Met Lys Glu Thr Ile
1 5 10 15

Met Asn Gln Glu Lys Leu Ala Lys Leu Gln Ala Gln Val Arg Ile Gly
20 25 30

Gly Lys Gly Thr Ala Arg Arg Lys Lys Lys Val Val His Arg Thr Ala
35 40 45

Thr Ala Asp Asp Lys Lys Leu Gln Phe Ser Leu Lys Lys Leu Gly Val
50 55 60

Asn Asn Ile Ser Gly Ile Glu Glu Val Asn Met Phe Thr Asn Gln Gly
65 70 75 80

Thr Val Ile His Phe Asn Asn Pro Lys Val Gln Ala Ser Leu Ala Ala
85 90 95

Asn Thr Phe Thr Ile Thr Gly His Ala Glu Thr Lys Gln Leu Thr Glu
100 105 110

Met Leu Pro Ser Ile Leu Asn Gln Leu Gly Ala Asp Ser Leu Thr Ser
115 120 125

Leu Arg Arg Leu Ala Glu Ala Leu Pro Lys Gln Ser Val Asp Gly Lys
130 135 140

Ala Pro Leu Ala Thr Gly Glu Asp Asp Asp Asp Glu Val Pro Asp Leu
145 150 155 160

Val Glu Asn Phe Asp Glu Ala Ser Lys Asn Glu Ala Asn
165 170

<210> 4592

<211> 66

<212> PRT

<213> Homo sapiens

4161

<400> 4592

```

Leu Cys Cys Pro Phe His Ile Lys Glu Leu Leu Thr Thr Lys Ala Ala
 1             5             10             15

Pro Ala Phe Pro Ile Cys Leu Ser Ile Trp Leu Ala Gly Lys Glu Arg
          20             25             30

Thr Cys Met Leu Val Lys Glu Glu Val Gly Trp Lys Lys Trp Gly Gly
          35             40             45

Thr Thr Val Lys Ser Arg Val Lys Pro Ser Trp Pro Lys Val Ser Cys
          50             55             60

Arg Leu
 65

```

<210> 4593

<211> 319

<212> PRT

<213> Homo sapiens

<400> 4593

```

Glu Thr Met Ala Lys Asn Pro Pro Glu Asn Cys Glu Asp Cys His Ile
 1             5             10             15

Leu Asn Ala Glu Ala Phe Lys Ser Lys Lys Ile Cys Lys Ser Leu Lys
          20             25             30

Ile Cys Gly Leu Val Phe Gly Ile Leu Ala Leu Thr Leu Ile Val Leu
          35             40             45

Phe Trp Gly Ser Lys His Phe Trp Pro Glu Val Pro Lys Lys Ala Tyr
          50             55             60

Asp Met Glu His Thr Phe Tyr Ser Asn Gly Glu Lys Lys Lys Ile Tyr
          65             70             75             80

Met Glu Ile Asp Pro Val Thr Arg Thr Glu Ile Phe Arg Ser Gly Asn
          85             90             95

Gly Thr Asp Glu Thr Leu Glu Val His Asp Phe Lys Asn Gly Tyr Thr
          100             105             110

Gly Ile Tyr Phe Val Gly Leu Gln Lys Cys Phe Ile Lys Thr Gln Ile
          115             120             125

Lys Val Ile Pro Glu Phe Ser Glu Pro Glu Glu Glu Ile Asp Glu Asn
          130             135             140

```

4162

Glu Glu Ile Thr Thr Thr Phe Phe Glu Gln Ser Val Ile Trp Val Pro
 145 150 155 160
 Ala Glu Lys Pro Ile Glu Asn Arg Asp Phe Leu Lys Asn Ser Lys Ile
 165 170 175
 Leu Glu Ile Cys Asp Asn Val Thr Met Tyr Trp Ile Asn Pro Thr Leu
 180 185 190
 Ile Ser Val Ser Glu Leu Gln Asp Phe Glu Glu Glu Gly Glu Asp Leu
 195 200 205
 His Phe Pro Ala Asn Glu Lys Lys Gly Ile Glu Gln Asn Glu Gln Trp
 210 215 220
 Val Val Pro Gln Val Lys Val Glu Lys Thr Arg His Ala Arg Gln Ala
 225 230 235 240
 Ser Glu Glu Glu Leu Pro Ile Asn Asp Tyr Thr Glu Asn Gly Ile Glu
 245 250 255
 Phe Asp Pro Met Leu Asp Glu Arg Gly Tyr Cys Cys Ile Tyr Cys Arg
 260 265 270
 Arg Gly Asn Arg Tyr Cys Arg Arg Val Cys Glu Pro Leu Leu Gly Tyr
 275 280 285
 Tyr Pro Tyr Pro Tyr Cys Tyr Gln Gly Gly Arg Val Ile Cys Arg Val
 290 295 300
 Ile Met Pro Cys Asn Trp Trp Val Ala Arg Met Leu Gly Arg Val
 305 310 315

<210> 4594

<211> 86

<212> PRT

<213> Homo sapiens

<400> 4594

Tyr Cys Phe Ala Phe Ser Ile Glu Thr Glu Asn Phe Ala Ser Gln Ser
 1 5 10 15
 Leu Leu Phe Pro Trp Tyr Cys Lys Lys Lys Lys Lys Glu Lys Glu Lys
 20 25 30
 Lys Lys Glu Asn Gln Pro Ile Ile Ala Cys Thr Glu Leu Lys Ile Val
 35 40 45

4163

Ile Asn Arg Ala Cys Trp Glu Lys Lys Glu Asn Asn Cys Cys Leu Phe
 50 55 60

Phe Leu Tyr Lys Arg Glu Phe Met Thr Lys Phe Ser Cys Glu Glu Cys
 65 70 75 80

Asp Thr Cys Leu Tyr Phe
 85

<210> 4595

<211> 147

<212> PRT

<213> Homo sapiens

<400> 4595

Phe Pro Leu Val Leu Val Ser His Gln Arg Thr Val Met Tyr Ala Ser
 1 5 10 15

Phe Val Thr Glu Lys Phe Leu Cys Phe Gln Ser Thr Met Arg Cys Met
 20 25 30

Ile Leu Phe Ser Ser His Phe Pro Gln Ala Pro Val Asn Gln Gly Lys
 35 40 45

Cys Ala Thr Asp Arg Leu Gly Glu Gly Leu Val Val Ala Gln Leu Glu
 50 55 60

Ile Val Ser Lys Ser Lys Pro Pro Ala His Pro Glu Glu Ser Leu Leu
 65 70 75 80

Trp Asn Val Lys Cys Asn His Phe Phe Arg Tyr Lys Thr Phe Pro Asn
 85 90 95

Asn Val Ile Gly Phe Leu Tyr Gly Lys Ile Glu Arg Ser Cys His Pro
 100 105 110

Pro Ala Tyr Ala Phe Ile Ser Phe Val Asp Leu Ser Asp His Leu Leu
 115 120 125

Phe Ala Gln Ser Leu Leu Asn Ser Lys Thr Val Pro Met Asn Gly Thr
 130 135 140

Pro Val Met
 145

<210> 4596

<211> 59

4164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4596

Thr	Pro	Xaa	Gln	Phe	Gly	Gly	Tyr	Ala	Lys	Glu	Ala	Asp	Tyr	Val	Ala
1				5					10					15	

Gln	Ala	Thr	Arg	Leu	Arg	Ala	Ala	Leu	Glu	Gly	Thr	Ala	Thr	Tyr	Arg
			20					25					30		

Gly	Asp	Ile	Tyr	Phe	Cys	Thr	Gly	Tyr	Asp	Pro	Pro	Met	Lys	Pro	Tyr
		35					40					45			

Gly	Arg	Arg	Asn	Glu	Ile	Trp	Leu	Leu	Lys	Thr
	50					55				

<210> 4597

<211> 358

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (352)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4597

Phe	Ala	Val	Ile	Arg	Phe	Glu	Ser	Ile	Ile	His	Glu	Phe	Asp	Pro	Trp
1				5					10					15	

Phe	Asn	Tyr	Arg	Ser	Thr	His	His	Leu	Ala	Ser	His	Gly	Phe	Tyr	Glu
			20					25					30		

Phe	Leu	Asn	Trp	Phe	Asp	Glu	Arg	Ala	Trp	Tyr	Pro	Leu	Gly	Arg	Ile
		35					40					45			

Val	Gly	Gly	Thr	Val	Tyr	Pro	Gly	Leu	Met	Ile	Thr	Ala	Gly	Leu	Ile
	50						55				60				

His	Trp	Ile	Leu	Asn	Thr	Leu	Asn	Ile	Thr	Val	His	Ile	Arg	Asp	Val
	65				70					75					80

Cys	Val	Phe	Leu	Ala	Pro	Thr	Phe	Ser	Gly	Leu	Thr	Ser	Ile	Ser	Thr
				85					90					95	

4165

Phe	Leu	Leu	Thr	Arg	Glu	Leu	Trp	Asn	Gln	Gly	Ala	Gly	Leu	Leu	Ala			
			100					105					110					
Ala	Cys	Phe	Ile	Ala	Ile	Val	Pro	Gly	Tyr	Ile	Ser	Arg	Ser	Val	Ala			
		115					120					125						
Gly	Ser	Phe	Asp	Asn	Glu	Gly	Ile	Ala	Ile	Phe	Ala	Leu	Gln	Phe	Thr			
	130					135					140							
Tyr	Tyr	Leu	Trp	Val	Lys	Ser	Val	Lys	Thr	Gly	Ser	Val	Phe	Trp	Thr			
145					150					155					160			
Met	Cys	Cys	Cys	Leu	Ser	Tyr	Phe	Tyr	Met	Val	Ser	Ala	Trp	Gly	Gly			
				165					170					175				
Tyr	Val	Phe	Ile	Ile	Asn	Leu	Ile	Pro	Leu	His	Val	Phe	Val	Leu	Leu			
		180						185					190					
Leu	Met	Gln	Arg	Tyr	Ser	Lys	Arg	Val	Tyr	Ile	Ala	Tyr	Ser	Thr	Phe			
		195					200					205						
Tyr	Ile	Val	Gly	Leu	Ile	Leu	Ser	Met	Gln	Ile	Pro	Phe	Val	Gly	Phe			
	210					215					220							
Gln	Pro	Ile	Arg	Thr	Ser	Glu	His	Met	Ala	Ala	Ala	Gly	Val	Phe	Ala			
225					230					235					240			
Leu	Leu	Gln	Ala	Tyr	Ala	Phe	Leu	Gln	Tyr	Leu	Arg	Asp	Arg	Leu	Thr			
				245					250					255				
Lys	Gln	Glu	Phe	Gln	Thr	Leu	Phe	Phe	Leu	Gly	Val	Ser	Leu	Ala	Ala			
			260					265					270					
Gly	Ala	Val	Phe	Leu	Ser	Val	Ile	Tyr	Leu	Thr	Tyr	Thr	Gly	Tyr	Ile			
		275					280					285						
Ala	Pro	Trp	Ser	Gly	Arg	Phe	Tyr	Ser	Leu	Trp	Asp	Thr	Gly	Tyr	Ala			
	290					295					300							
Lys	Ile	His	Ile	Pro	Ile	Ile	Ala	Ser	Val	Ser	Glu	His	Gln	Pro	Thr			
305					310					315					320			
Thr	Trp	Val	Ser	Phe	Phe	Phe	Asp	Leu	His	Ile	Leu	Val	Cys	Thr	Phe			
				325					330				335					
Pro	Ala	Gly	Leu	Trp	Phe	Cys	Ile	Lys	Asn	Ile	Asn	Asp	Glu	Arg	Xaa			
			340					345					350					
Phe	Gly	Lys	Arg	Gly	Phe													
				355														

4166

<210> 4598

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4598

Ile	Ser	Glu	Xaa	Ser	Phe	Phe	Gln	Asn	Met	Leu	Asn	Leu	Tyr	Asn	Phe
1				5					10					15	

Ser	Ala	Lys	Val	Met	Ala	Asp	Gln	Leu	Arg	Lys	Pro	Pro	Ser	Arg	Asp
			20					25					30		

Gln	Trp	Ser	Met	Thr	Pro	Gln	Thr	Val	Asn	Ala	Tyr	Tyr	Leu	Pro	Thr
		35					40					45			

Lys	Asn	Glu	Ile	Val	Phe	Pro	Ala	Gly	Ile	Leu	Gln	Ala	Pro	Phe	Tyr
	50					55					60				

Ala	Arg	Asn	His	Pro	Lys	Ala	Leu	Asn	Phe	Gly	Gly	Ile	Gly	Val	Val
65					70					75					80

Met	Gly	His	Glu	Leu	Thr	Xaa	Ala	Phe	Asp	Asp	Gln	Gly	Arg	Glu	Tyr
				85					90					95	

Asp	Lys	Glu	Gly	Asn	Leu	Arg	Pro	Trp	Trp	Gln	Asn	Glu	Ser	Leu	Ala
		100						105					110		

Ala	Phe	Arg	Asn	His	Thr	Ala	Cys	Met	Glu	Glu	Gln	Tyr	Asn	Gln	Tyr
	115						120					125			

Gln	Val	Asn	Gly	Glu	Arg	Leu	Asn	Gly	Arg	Gln	Thr	Leu	Gly	Glu	Asn
	130					135					140				

Ile	Ala	Asp	Asn	Gly	Gly	Leu	Lys	Leu	Pro	Thr	Met	Leu	Thr	Lys	His
145					150					155					160

Gly

4167

<210> 4599

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4599

Ala Gln Val Val Val Leu Val Met Ser Leu Thr Thr Leu Trp Thr Leu
1 5 10 15

Asp Lys Leu Leu Leu Cys Val Cys Xaa Leu Ile Cys Lys Met Lys Ile
20 25 30

Ile Ser Val Ser Tyr Arg Tyr Ser Leu Asn Arg Asp Asn Tyr Thr Tyr
35 40 45

Phe Lys Val Val Lys Tyr Thr Ile Thr Thr Arg
50 55

<210> 4600

<211> 44

<212> PRT

<213> Homo sapiens

<400> 4600

Asp Gln Pro Gly Gln His Ser Lys Thr Pro Ser Leu Gln Lys Asn Leu
1 5 10 15

Lys Ile Ser Gln Val Trp Trp His Ala Pro Val Val Pro Ala Thr Arg
20 25 30

Asp Ala Glu Val Arg Gly Ser Leu Glu Pro Gly Arg
35 40

<210> 4601

<211> 397

<212> PRT

<213> Homo sapiens

<220>

4168

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (392)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (395)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (396)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4601

Ser	His	Gly	Pro	Ala	Ala	Gly	Pro	Arg	Ser	Ala	Leu	Gln	His	Asn	Lys
1				5					10					15	

Met	Ala	Asn	Gln	Val	Asn	Gly	Asn	Ala	Val	Gln	Leu	Lys	Glu	Glu	Glu
		20					25						30		

Glu	Pro	Met	Asp	Thr	Ser	Ser	Val	Thr	His	Thr	Glu	His	Tyr	Lys	Thr
		35					40					45			

Leu	Ile	Glu	Ala	Gly	Leu	Pro	Gln	Lys	Val	Ala	Glu	Arg	Leu	Asp	Glu
	50					55					60				

Ile	Phe	Gln	Thr	Gly	Leu	Val	Ala	Tyr	Val	Asp	Leu	Asp	Glu	Arg	Ala
65					70					75					80

Ile	Asp	Ala	Leu	Arg	Glu	Phe	Asn	Glu	Glu	Gly	Ala	Leu	Ser	Val	Leu
				85					90					95	

Gln	Gln	Phe	Lys	Glu	Ser	Asp	Leu	Ser	His	Val	Gln	Asn	Lys	Ser	Ala
			100					105					110		

Phe	Leu	Cys	Gly	Val	Met	Lys	Thr	Tyr	Arg	Gln	Arg	Glu	Lys	Gln	Gly
		115					120					125			

Ser	Lys	Val	Gln	Glu	Ser	Thr	Lys	Gly	Pro	Asp	Glu	Ala	Lys	Ile	Lys
	130					135					140				

Ala	Leu	Leu	Glu	Arg	Thr	Gly	Tyr	Thr	Leu	Asp	Val	Thr	Thr	Gly	Gln
145					150					155					160

Arg	Lys	Tyr	Gly	Gly	Pro	Pro	Pro	Asp	Ser	Val	Tyr	Ser	Gly	Val	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4169

	165		170		175														
Pro	Gly	Ile	Gly	Thr	Glu	Val	Phe	Val	Gly	Lys	Ile	Pro	Arg	Asp	Leu				
			180						185					190					
Tyr	Glu	Asp	Glu	Leu	Val	Pro	Leu	Phe	Glu	Lys	Ala	Gly	Pro	Ile	Trp				
		195					200					205							
Asp	Leu	Arg	Leu	Met	Met	Asp	Pro	Leu	Ser	Gly	Gln	Asn	Arg	Gly	Tyr				
	210					215					220								
Ala	Phe	Ile	Thr	Phe	Cys	Gly	Lys	Glu	Ala	Ala	Gln	Glu	Ala	Val	Lys				
225					230					235					240				
Leu	Cys	Asp	Ser	Tyr	Glu	Ile	Arg	Pro	Gly	Lys	His	Leu	Gly	Val	Cys				
				245					250					255					
Ile	Ser	Val	Ala	Asn	Asn	Arg	Leu	Phe	Val	Gly	Ser	Ile	Pro	Xaa	Asn				
			260					265					270						
Lys	Thr	Lys	Glu	Asn	Ile	Leu	Glu	Glu	Phe	Ser	Lys	Val	Thr	Glu	Gly				
		275					280					285							
Leu	Val	Asp	Val	Ile	Leu	Tyr	His	Gln	Pro	Asp	Asp	Lys	Lys	Lys	Asn				
	290					295					300								
Arg	Gly	Phe	Cys	Phe	Leu	Glu	Tyr	Glu	Asp	His	Lys	Ser	Ala	Ala	Gln				
305					310				315						320				
Ala	Arg	Arg	Arg	Leu	Met	Ser	Gly	Lys	Val	Lys	Val	Trp	Gly	Asn	Val				
				325					330					335					
Val	Thr	Val	Glu	Trp	Ala	Asp	Pro	Val	Glu	Glu	Pro	Asp	Pro	Glu	Val				
			340					345					350						
Met	Ala	Lys	Val	Lys	Val	Leu	Phe	Val	Arg	Asn	Leu	Ala	Thr	Thr	Val				
		355					360					365							
Thr	Glu	Glu	Ile	Leu	Glu	Lys	Ser	Phe	Ser	Glu	Phe	Gly	Lys	Leu	Glu				
	370					375					380								
Arg	Val	Lys	Lys	Leu	Lys	Val	Xaa	Ala	Ala	Xaa	Xaa	Asn							
385					390					395									

<210> 4602

<211> 355

<212> PRT

<213> Homo sapiens

4170

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (131)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (253)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4602
 Lys Xaa His Leu Leu Tyr Arg Pro Leu Glu Gln Gln His Gly Val Ile
 1 5 10 15
 Pro Asp Arg Asp Ala Glu Phe Cys Leu Phe Asp Arg Val Val Asn Val
 20 25 30
 Arg Glu Asn Phe Ser Val Pro Val Gly Leu Arg Gly Thr Ile Ile Gly
 35 40 45
 Ile Lys Gly Ala Asn Arg Glu Ala Asp Val Leu Phe Glu Val Leu Phe
 50 55 60
 Asp Xaa Glu Phe Pro Gly Gly Leu Thr Ile Arg Cys Ser Pro Gly Arg
 65 70 75 80
 Gly Tyr Arg Leu Pro Thr Ser Ala Leu Val Asn Leu Ser His Gly Ser
 85 90 95
 Arg Ser Glu Thr Gly Asn Gln Lys Leu Thr Ala Ile Val Lys Pro Gln
 100 105 110
 Pro Ala Val His Gln His Ser Ser Ser Ser Val Ser Ser Gly His
 115 120 125
 Leu Gly Xaa Leu Asn His Ser Pro Gln Ser Leu Phe Val Pro Thr Gln
 130 135 140
 Val Pro Thr Lys Asp Asp Asp Glu Phe Cys Asn Ile Trp Gln Ser Leu
 145 150 155 160

4171

Gln Gly Ser Gly Lys Met Gln Tyr Phe Glu Pro Thr Ile Gln Glu Lys
 165 170 175
 Gly Ala Val Leu Pro Gln Glu Ile Ser Gln Val Asn Gln His His Lys
 180 185 190
 Ser Gly Phe Asn Asp Asn Ser Val Lys Tyr Gln Gln Arg Lys His Asp
 195 200 205
 Pro His Arg Lys Phe Lys Glu Glu Cys Lys Ser Pro Lys Ala Glu Cys
 210 215 220
 Trp Ser Gln Lys Met Ser Asn Lys Gln Pro Asn Ser Gly Ile Glu Asn
 225 230 235 240
 Phe Leu Ala Ser Leu Asn Ile Ser Lys Glu Asn Glu Xaa Gln Ser Ser
 245 250 255
 His His Gly Glu Pro Pro Ser Glu Glu His Leu Ser Pro Gln Ser Phe
 260 265 270
 Ala Met Lys Gly Thr Arg Met Leu Lys Glu Ile Leu Lys Ile Asp Gly
 275 280 285
 Ser Asn Thr Val Asp His Lys Asn Glu Ile Lys Gln Ile Ala Asn Glu
 290 295 300
 Ile Pro Val Ser Ser Asn Arg Arg Asp Glu Tyr Gly Leu Pro Ser Gln
 305 310 315 320
 Pro Lys Gln Asn Lys Lys Leu Ala Ser Tyr Met Asn Lys Pro His Ser
 325 330 335
 Ala Asn Glu Tyr His Asn Val Gln Ser Met Asp Asn Met Cys Trp Pro
 340 345 350
 Ala Pro Ser
 355

<210> 4603

<211> 385

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

4172

<400> 4603

His	Arg	Arg	Tyr	Ser	Val	Ala	Ser	Gln	Val	Pro	Ser	Gly	Cys	Thr	Leu
1				5				10						15	
Glu	Asp	His	Thr	Arg	Phe	Leu	Phe	Gly	Cys	Gln	Arg	Pro	Pro	His	Pro
			20					25					30		
Pro	Leu	Ser	Trp	Glu	Lys	Asp	Gly	Gly	Xaa	Val	Arg	Gln	Asp	Leu	Ala
		35					40					45			
Gln	Leu	Met	Asn	Ser	Ser	Gly	Ser	His	Lys	Asp	Leu	Ala	Gly	Lys	Tyr
	50					55					60				
Arg	Gln	Ile	Leu	Glu	Lys	Ala	Ile	Gln	Leu	Ser	Gly	Ala	Glu	Gln	Leu
65					70					75					80
Glu	Ala	Leu	Lys	Ala	Phe	Val	Glu	Ala	Met	Val	Asn	Glu	Asn	Val	Ser
				85					90					95	
Leu	Val	Ile	Ser	Arg	Gln	Leu	Leu	Thr	Asp	Phe	Cys	Thr	His	Leu	Pro
			100					105					110		
Asn	Leu	Pro	Asp	Ser	Thr	Ala	Lys	Glu	Ile	Tyr	His	Phe	Thr	Leu	Glu
		115					120					125			
Lys	Ile	Gln	Pro	Arg	Val	Ile	Ser	Phe	Glu	Glu	Gln	Val	Ala	Ser	Ile
	130					135					140				
Arg	Gln	His	Leu	Ala	Ser	Ile	Tyr	Glu	Lys	Glu	Glu	Asp	Trp	Arg	Asn
145					150					155					160
Ala	Ala	Gln	Val	Leu	Val	Gly	Ile	Pro	Leu	Glu	Thr	Gly	Gln	Lys	Gln
				165					170					175	
Tyr	Asn	Val	Asp	Tyr	Lys	Leu	Glu	Thr	Tyr	Leu	Lys	Ile	Ala	Arg	Leu
			180					185					190		
Tyr	Leu	Glu	Asp	Asp	Asp	Pro	Val	Gln	Ala	Glu	Ala	Tyr	Ile	Asn	Arg
		195					200					205			
Ala	Ser	Leu	Leu	Gln	Asn	Glu	Ser	Thr	Asn	Glu	Gln	Leu	Gln	Ile	His
	210					215					220				
Tyr	Lys	Val	Cys	Tyr	Ala	Arg	Val	Leu	Asp	Tyr	Arg	Arg	Lys	Phe	Ile
225					230					235					240
Glu	Ala	Ala	Gln	Arg	Tyr	Asn	Glu	Leu	Ser	Tyr	Lys	Thr	Ile	Val	His
				245					250					255	
Glu	Ser	Glu	Arg	Leu	Glu	Ala	Leu	Lys	His	Ala	Leu	His	Cys	Thr	Ile
			260					265					270		

4173

Leu Ala Ser Ala Gly Gln Gln Arg Ser Arg Met Leu Ala Thr Leu Phe
 275 280 285
 Lys Asp Glu Arg Cys Gln Gln Leu Ala Ala Tyr Gly Ile Leu Glu Lys
 290 295 300
 Met Tyr Leu Asp Arg Ile Ile Arg Gly Asn Gln Leu Gln Glu Phe Ala
 305 310 315 320
 Ala Met Leu Met Pro His Gln Lys Ala Thr Thr Ala Asp Gly Ser Ser
 325 330 335
 Ile Leu Asp Arg Ala Val Ile Glu His Asn Leu Leu Ser Ala Ser Lys
 340 345 350
 Leu Tyr Asn Asn Ile Thr Phe Glu Glu Leu Gly Ala Leu Leu Glu Ile
 355 360 365
 Pro Ala Ala Lys Ala Glu Lys Ile Ala Ser Gln Met Ile Thr Glu Asp
 370 375 380
 Val
 385

<210> 4604
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 4604
 Ala His Gly Gln Ile Glu Gly Lys Ala Leu Thr His Asp His Thr Ala
 1 5 10 15
 Glu Lys Trp Gln Arg Gln Asp Leu Asn Leu Glu Pro Leu Ala Pro His
 20 25 30
 Thr Ser Asn Leu Asn His Ser Pro Tyr Asn Thr Thr Tyr Val Val Lys
 35 40 45
 Met Cys Gly Gly His Ala Ile Asn Val Gly Pro Phe Thr Val Ala Gly
 50 55 60
 Arg Gly Arg Asn Leu Gln Phe Leu Arg Val Leu Leu Leu Arg Cys Pro
 65 70 75 80
 Pro Val Leu Gly His Ser Cys Ser Leu Pro Cys Pro Ala Trp Ser His
 85 90 95

4174

Pro Pro Ser Ala Asn Arg Ser Leu Gly Arg Val Leu Trp Ala Leu Ile
 100 105 110

Arg Pro Trp Gln Gly Arg Ser Ser
 115 120

<210> 4605

<211> 390

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4605

Thr Ser Val Ala Ala Ala Ala Arg Gly Arg Ala Gly Cys Pro Leu
 1 5 10 15

Thr Ala Ala Ser Ala Ala Arg Phe Lys Met Ala Ala Cys Ser His Ser
 20 25 30

Phe Ser Ala Glu Arg Leu Leu Thr Phe Ile Val Phe Ser Ala Arg Phe
 35 40 45

Asp Arg Leu Xaa Pro Ala Ala Leu Ser Gly Ile Phe Tyr Gln Ala Glu
 50 55 60

Met His Arg Thr Thr Arg Ile Lys Ile Thr Glu Leu Asn Pro His Leu
 65 70 75 80

Met Cys Val Leu Cys Gly Gly Tyr Phe Ile Asp Ala Thr Thr Ile Ile
 85 90 95

Glu Cys Leu His Ser Phe Cys Lys Thr Cys Ile Val Arg Tyr Leu Glu
 100 105 110

Thr Ser Lys Tyr Cys Pro Ile Cys Asp Val Gln Val His Lys Thr Arg
 115 120 125

Pro Leu Leu Asn Ile Arg Ser Asp Lys Thr Leu Gln Asp Ile Val Tyr
 130 135 140

Lys Leu Val Pro Gly Leu Phe Lys Asn Glu Met Lys Arg Arg Arg Asp
 145 150 155 160

Phe Tyr Ala Ala His Pro Ser Ala Asp Ala Ala Asn Gly Ser Asn Glu
 165 170 175

4175

```

Asp Arg Gly Glu Val Ala Asp Glu Asp Lys Arg Ile Ile Thr Asp Asp
      180              185              190

Glu Ile Ile Ser Leu Ser Ile Glu Phe Phe Asp Gln Asn Arg Leu Asp
      195              200              205

Arg Lys Val Asn Lys Asp Lys Glu Lys Ser Lys Glu Glu Val Asn Asp
      210              215              220

Lys Arg Tyr Leu Arg Cys Pro Ala Ala Met Thr Val Met His Leu Arg
      225              230              235              240

Lys Phe Leu Arg Ser Lys Met Asp Ile Pro Asn Thr Phe Gln Ile Asp
      245              250              255

Val Met Tyr Glu Glu Glu Pro Leu Lys Asp Tyr Tyr Thr Leu Met Asp
      260              265              270

Ile Ala Tyr Ile Tyr Thr Trp Arg Arg Asn Gly Pro Leu Pro Leu Lys
      275              280              285

Tyr Arg Val Arg Pro Thr Cys Lys Arg Met Lys Ile Ser His Gln Arg
      290              295              300

Asp Gly Leu Thr Asn Ala Gly Glu Leu Glu Ser Asp Ser Gly Ser Asp
      305              310              315              320

Lys Ala Asn Ser Pro Ala Gly Gly Ile Pro Ser Thr Ser Ser Cys Leu
      325              330              335

Pro Ser Pro Ser Thr Pro Val Gln Ser Pro His Pro Gln Phe Pro His
      340              345              350

Ile Ser Ser Thr Met Asn Gly Thr Ser Asn Ser Pro Ser Gly Asn His
      355              360              365

Gln Ser Ser Phe Ala Asn Arg Pro Arg Lys Ser Ser Val Asn Gly Ser
      370              375              380

Ser Ala Thr Ser Ser Gly
      385              390

```

<210> 4606

<211> 197

<212> PRT

<213> Homo sapiens

<400> 4606

4176

Leu Thr Gly Leu Ser Ile Ser Ser Thr Pro Pro Ala Val Ser Ser Val
 1 5 10 15
 Leu Ser Thr Gly Val Pro Thr Val Pro Leu Leu Pro Pro Gln Val Asn
 20 25 30
 Gln Ser Leu Thr Ser Val Pro Pro Met Asn Pro Ala Thr Thr Leu Pro
 35 40 45
 Gly Leu Met Pro Leu Pro Ala Gly Leu Pro Asn Leu Pro Asn Leu Asn
 50 55 60
 Leu Asn Leu Pro Ala Pro His Ile Met Pro Gly Val Gly Leu Pro Glu
 65 70 75 80
 Leu Val Asn Pro Gly Leu Pro Pro Leu Pro Ser Met Pro Pro Arg Asn
 85 90 95
 Leu Pro Gly Ile Ala Pro Leu Pro Leu Pro Ser Glu Phe Leu Pro Ser
 100 105 110
 Phe Pro Leu Val Pro Glu Ser Ser Ser Ala Ala Ser Ser Gly Glu Leu
 115 120 125
 Leu Ser Ser Leu Pro Pro Thr Ser Asn Ala Pro Ser Asp Pro Ala Thr
 130 135 140
 Thr Thr Ala Lys Ala Asp Ala Ala Ser Ser Leu Thr Val Asp Val Thr
 145 150 155 160
 Pro Pro Thr Ala Lys Ala Pro Thr Thr Val Glu Asp Arg Val Gly Asp
 165 170 175
 Ser Thr Pro Val Ser Glu Lys Pro Val Ser Ala Ala Val Asp Ala Asn
 180 185 190
 Ala Ser Glu Ser Pro
 195

<210> 4607

<211> 96

<212> PRT

<213> Homo sapiens

<400> 4607

Leu Met Phe Tyr Val Leu Phe Trp Thr Leu Ser Ser Cys Lys Asn Phe
 1 5 10 15
 Tyr Lys Asn Cys Phe Leu His Pro Cys Gly Ala Tyr Ser Ser Glu Pro

4177

	20		25		30										
Ser	Pro	Gln	Ser	Gln	Cys	Leu	Cys	Phe	Leu	Phe	Tyr	Phe	Cys	Ser	Ile
	35				40				45						
Arg	Phe	Leu	Leu	Leu	Leu	Cys	Leu	Lys	Ser	Ser	Leu	Gly	Ser	Tyr	Gln
	50				55				60						
Gly	Phe	Ser	Phe	Cys	Val	Ala	Phe	Ala	Ala	Trp	Ile	Lys	His	Trp	Leu
	65				70				75					80	
Thr	Val	Leu	Met	Cys	Glu	Glu	Lys	Lys	Phe	Ser	Lys	Ala	Gly	Glu	Leu
			85					90					95		

<210> 4608

<211> 298

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4608

Pro	Cys	Ala	Trp	Arg	Ala	Ala	Arg	Gly	Gly	Pro	Cys	Ala	Ala	Pro	Leu
1				5				10						15	

Gly	Leu	Arg	Glu	Arg	Gly	Arg	Val	Ser	Xaa	Arg	Leu	Leu	Gly	Pro	Ala
		20						25					30		

Ala	Ala	Arg	Ala	Leu	Leu	Leu	Gly	Leu	Pro	Gly	Arg	Thr	Leu	Glu	Ala
		35					40					45			

Ala	Ser	Gly	Arg	Ser	Trp	Leu	Ala	Ala	Ala	Arg	Asp	Arg	Pro	Ala	Glu
	50					55					60				

4178

```

Pro Leu Phe Gly Arg Gly Glu Gly Gly Ser Gln Ala Ser Gly Xaa Ala
65                               70                               75                               80

Gly Ala Ala Ala Glu Ala Pro Gly Xaa Gln Trp Gly Pro Ala Ser Thr
85                               90                               95

Pro Ser Leu Tyr Glu Asn Pro Trp Thr Ile Pro Asn Met Leu Ser Met
100                             105                             110

Thr Arg Ile Gly Leu Ala Pro Val Leu Gly Tyr Leu Ile Ile Glu Glu
115                             120                             125

Asp Phe Asn Ile Ala Leu Gly Val Phe Ala Leu Ala Gly Leu Thr Asp
130                             135                             140

Leu Leu Asp Gly Phe Ile Ala Arg Asn Trp Ala Asn Gln Arg Ser Ala
145                             150                             155                             160

Leu Gly Ser Ala Leu Asp Pro Leu Ala Asp Lys Ile Leu Ile Ser Ile
165                             170                             175

Leu Tyr Val Ser Leu Thr Tyr Ala Asp Leu Ile Pro Val Pro Leu Thr
180                             185                             190

Tyr Met Ile Ile Ser Arg Asp Val Met Leu Ile Ala Ala Val Phe Tyr
195                             200                             205

Val Arg Tyr Arg Thr Leu Pro Thr Pro Arg Thr Leu Ala Lys Tyr Phe
210                             215                             220

Asn Pro Cys Tyr Ala Thr Ala Arg Leu Lys Pro Thr Phe Ile Ser Lys
225                             230                             235                             240

Val Asn Thr Ala Val Gln Leu Ile Leu Val Ala Ala Ser Leu Ala Ala
245                             250                             255

Pro Val Phe Asn Tyr Ala Asp Ser Ile Tyr Leu Gln Ile Leu Trp Cys
260                             265                             270

Phe Thr Ala Phe Thr Thr Ala Ala Ser Ala Tyr Ser Tyr Tyr His Tyr
275                             280                             285

Gly Arg Lys Thr Val Gln Val Ile Lys Asp
290                             295

```

<210> 4609

<211> 279

<212> PRT

4179

<213> Homo sapiens

<400> 4609

Glu Gly Pro Ala Glu Gly Asn Met Ala Ala Lys Val Phe Glu Ser Ile
 1 5 10 15
 Gly Lys Phe Gly Leu Ala Leu Ala Val Ala Gly Gly Val Val Asn Ser
 20 25 30
 Ala Leu Tyr Asn Val Asp Ala Gly His Arg Ala Val Ile Phe Asp Arg
 35 40 45
 Phe Arg Gly Val Gln Asp Ile Val Val Gly Glu Gly Thr His Phe Leu
 50 55 60
 Ile Pro Trp Val Gln Lys Pro Ile Ile Phe Asp Cys Arg Ser Arg Pro
 65 70 75 80
 Arg Asn Val Pro Val Ile Thr Gly Ser Lys Asp Leu Gln Asn Val Asn
 85 90 95
 Ile Thr Leu Arg Ile Leu Phe Arg Pro Val Ala Ser Gln Leu Pro Arg
 100 105 110
 Ile Phe Thr Ser Ile Gly Glu Asp Tyr Asp Glu Arg Val Leu Pro Ser
 115 120 125
 Ile Thr Thr Glu Ile Leu Lys Ser Val Val Ala Arg Phe Asp Ala Gly
 130 135 140
 Glu Leu Ile Thr Gln Arg Glu Leu Val Ser Arg Gln Val Ser Asp Asp
 145 150 155 160
 Leu Thr Glu Arg Ala Ala Thr Phe Gly Leu Ile Leu Asp Asp Val Ser
 165 170 175
 Leu Thr His Leu Thr Phe Gly Lys Glu Phe Thr Glu Ala Val Glu Ala
 180 185 190
 Lys Gln Val Ala Gln Gln Glu Ala Glu Arg Ala Arg Phe Val Val Glu
 195 200 205
 Lys Ala Glu Gln Gln Lys Lys Ala Ala Ile Ile Ser Ala Glu Gly Asp
 210 215 220
 Ser Lys Ala Ala Glu Leu Ile Ala Asn Ser Leu Ala Thr Ala Gly Asp
 225 230 235 240
 Gly Leu Ile Glu Leu Arg Lys Leu Glu Ala Ala Glu Asp Ile Ala Tyr
 245 250 255

4180

Gln Leu Ser Arg Ser Arg Asn Ile Thr Tyr Leu Pro Ala Gly Gln Ser
 260 265 270

Val Leu Leu Gln Leu Pro Gln
 275

<210> 4610

<211> 406

<212> PRT

<213> Homo sapiens

<400> 4610

Val Thr Ala Cys Ala Ala Pro Ala Ala Trp Leu Pro Ile Leu Val Ala
 1 5 10 15

Asp Ile Trp Ser Ser Tyr Asn Met Ala Asp Ile Asp Asn Lys Glu Gln
 20 25 30

Ser Glu Leu Asp Gln Asp Leu Asp Asp Val Glu Glu Val Glu Glu Glu
 35 40 45

Glu Thr Gly Glu Glu Thr Lys Leu Lys Ala Arg Gln Leu Thr Val Gln
 50 55 60

Met Met Gln Asn Pro Gln Ile Leu Ala Ala Leu Gln Glu Arg Leu Asp
 65 70 75 80

Gly Leu Val Glu Thr Pro Thr Gly Tyr Ile Glu Ser Leu Pro Arg Val
 85 90 95

Val Lys Arg Arg Val Asn Ala Leu Lys Asn Leu Gln Val Lys Cys Ala
 100 105 110

Gln Ile Glu Ala Lys Phe Tyr Glu Glu Val His Asp Leu Glu Arg Lys
 115 120 125

Tyr Ala Val Leu Tyr Gln Pro Leu Phe Asp Lys Arg Phe Glu Ile Ile
 130 135 140

Asn Ala Ile Tyr Glu Pro Thr Glu Glu Glu Cys Glu Trp Lys Pro Asp
 145 150 155 160

Glu Glu Asp Glu Ile Ser Glu Glu Leu Lys Glu Lys Ala Lys Ile Glu
 165 170 175

Asp Glu Lys Lys Asp Glu Glu Lys Glu Asp Pro Lys Gly Ile Pro Glu
 180 185 190

Phe Trp Leu Thr Val Phe Lys Asn Val Asp Leu Leu Ser Asp Met Val

4181

195		200		205
Gln Glu His Asp Glu Pro Ile Leu Lys His Leu Lys Asp Ile Lys Val				
210		215		220
Lys Phe Ser Asp Ala Gly Gln Pro Met Ser Phe Val Leu Glu Phe His				
225		230		235
				240
Phe Glu Pro Asn Glu Tyr Phe Thr Asn Glu Val Leu Thr Lys Thr Tyr				
		245		250
				255
Arg Met Arg Ser Glu Pro Asp Asp Ser Asp Pro Phe Ser Phe Asp Gly				
		260		265
				270
Pro Glu Ile Met Gly Cys Thr Gly Cys Gln Ile Asp Trp Lys Lys Gly				
		275		280
				285
Lys Asn Val Thr Leu Lys Thr Ile Lys Lys Lys Gln Lys His Lys Gly				
		290		295
				300
Arg Gly Thr Val Arg Thr Val Thr Lys Thr Val Ser Asn Asp Ser Phe				
305		310		315
				320
Phe Asn Phe Phe Ala Pro Pro Glu Val Pro Glu Ser Gly Asp Leu Asp				
		325		330
				335
Asp Asp Ala Glu Ala Ile Leu Ala Ala Asp Phe Glu Ile Gly His Phe				
		340		345
				350
Leu Arg Glu Arg Ile Ile Pro Arg Ser Val Leu Tyr Phe Thr Gly Glu				
		355		360
				365
Ala Ile Glu Asp Asp Asp Asp Asp Tyr Asp Glu Glu Gly Glu Glu Ala				
		370		375
				380
Asp Glu Gly Tyr Gln Leu Phe Glu Glu Val Lys Ser Cys Ser Lys Leu				
385		390		395
				400
Phe Gln Arg Trp Leu Gln				
		405		

<210> 4611

<211> 126

<212> PRT

<213> Homo sapiens

<400> 4611

Gly Val Val Lys Ser Leu Leu Phe Thr Arg Cys Asn Val Leu Val Pro
1 5 10 15

4182

Tyr Lys Gln Gly Trp Gly Gly Glu Gly Arg Ala Lys Thr Asn Ile Glu
 20 25 30
 Ile Leu Lys Gln Gln Gln Ser Glu Trp Ile Leu Phe Phe Val Ile Val
 35 40 45
 Gly Gly Leu Lys Asn Ser Pro His Val Ile Ile Val Asn Thr Leu Leu
 50 55 60
 Cys Gly His Cys Asn Ile Trp Gly Val Gly Gln Gly Gly Lys Val Thr
 65 70 75 80
 Ile Val His Met Ser Leu Ala Ser Val Gln Ser Ser Val Gln Asn Val
 85 90 95
 Met Leu Phe Cys Lys Lys Arg Phe Met Ile Phe Lys Ile Asn Leu Val
 100 105 110
 Asn Leu Phe Leu Val Val Ile Phe Phe Leu Arg Gln Ser Phe
 115 120 125

<210> 4612

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4612

Gln Glu Leu Arg Ser Pro Ser Arg Ser Pro Ser Pro Pro Lys Ser
 1 5 10 15
 Pro Pro Trp Thr Thr Gly Gly Ser Leu Cys Glu Gln Leu Ala Phe Arg
 20 25 30
 Lys Pro Leu Ser Val Phe Lys Gln Lys Val Glu Gly Ala Thr Lys Gln
 35 40 45
 Ala Ala Val Arg Ala Ser Xaa Cys Arg Pro Leu Pro Cys Ser Ser Ser
 50 55 60
 Ser Phe Ala Ser Ala Ser Ser Val Met Phe Cys Leu Glu Phe Tyr Leu
 65 70 75 80
 Asp Phe Phe Ser Gly Tyr Phe Ser Val Phe Gln Pro Leu Leu

4183

85

90

<210> 4613

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4613

Lys	Lys	Ser	Leu	Arg	Cys	Glu	Tyr	Arg	Ile	Asp	Ile	Glu	Arg	Leu	Tyr
1				5					10					15	

Met	Ser	Lys	Thr	His	Leu	Ser	Ser	Ser	His	Arg	Pro	Leu	Gln	Ser	Gly
			20					25					30		

His	Val	Gly	Gln	Xaa	Gly	Thr	Gly	Ala	Gly	Asp	Ala	Pro	Pro	Gly	Gln
		35					40					45			

Asn	Ala	Pro	Phe	Val	Ala	Leu	Pro	Asp	Thr	Xaa	Tyr	Leu	Leu	Xaa	Lys
		50				55					60				

Arg	Glu	Thr	Gly	Ser
65				

<210> 4614

<211> 165

<212> PRT

<213> Homo sapiens

<400> 4614

Asp	Pro	Arg	Thr	Met	Asn	Leu	Ala	Ile	Ser	Ile	Ala	Leu	Leu	Leu	Thr
1				5					10					15	

4184

Val Leu Gln Val Ser Arg Gly Gln Lys Val Thr Ser Leu Thr Ala Cys
 20 25 30
 Leu Val Asp Gln Ser Leu Arg Leu Asp Cys Arg His Glu Asn Thr Ser
 35 40 45
 Ser Ser Pro Ile Gln Tyr Glu Phe Ser Leu Thr Arg Glu Thr Lys Lys
 50 55 60
 His Val Leu Phe Gly Thr Val Gly Val Pro Glu His Thr Tyr Arg Ser
 65 70 75 80
 Arg Thr Asn Phe Thr Ser Lys Tyr Asn Met Lys Val Leu Tyr Leu Ser
 85 90 95
 Ala Phe Thr Ser Lys Asp Glu Gly Thr Tyr Thr Cys Ala Leu His His
 100 105 110
 Ser Gly His Ser Pro Pro Ile Ser Ser Gln Asn Val Thr Val Leu Arg
 115 120 125
 Asp Lys Leu Val Lys Cys Glu Gly Ile Ser Leu Leu Ala Gln Asn Thr
 130 135 140
 Ser Trp Leu Leu Leu Leu Leu Leu Ser Leu Ser Leu Leu Gln Ala Thr
 145 150 155 160
 Asp Phe Met Ser Leu
 165

<210> 4615

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4615

Ser Leu Cys Phe Ile Asp Gly Lys Tyr His Lys Gln Ile Lys Ile Glu
 1 5 10 15
 Glu Asn Ala Thr Gly Phe Ser Tyr Glu Ser Leu Phe Arg Glu Tyr Leu
 20 25 30
 Asn Glu Thr Val Thr Glu Val Trp Ile Glu Asp Pro Tyr Ile Arg His
 35 40 45

4185

Thr His Gln Gly Ile Asp Gln Val Gln Gln Ser Arg Gly Leu Gln Glu
 50 55 60

Ile Glu Glu Ser Leu Arg Ser His Gly Ser Ala Xaa Gly Arg Ser Ile
 65 70 75 80

Leu Phe Phe Asn Thr
 85

<210> 4616

<211> 366

<212> PRT

<213> Homo sapiens

<400> 4616

Pro Gly Ser Thr His Ala Ser Gly Lys Ile Gln Asn Lys Trp Leu Arg
 1 5 10 15

Pro Ser Pro Arg Ser His Arg Thr Pro Glu Ser Gly Arg Val Leu Ser
 20 25 30

Leu Phe Arg Leu Pro Pro Pro Gly Met Ala Leu Ser Gly Ser Thr Pro
 35 40 45

Ala Pro Cys Trp Glu Glu Asp Glu Cys Leu Asp Tyr Tyr Gly Met Leu
 50 55 60

Ser Leu His Arg Met Phe Glu Val Val Gly Gly Gln Leu Thr Glu Cys
 65 70 75 80

Glu Leu Glu Leu Leu Ala Phe Leu Leu Asp Glu Ala Pro Gly Ala Ala
 85 90 95

Gly Gly Leu Ala Arg Ala Arg Ser Gly Leu Glu Leu Leu Leu Glu Leu
 100 105 110

Glu Arg Arg Gly Gln Cys Asp Glu Ser Asn Leu Arg Leu Leu Gly Gln
 115 120 125

Leu Leu Arg Val Leu Ala Arg His Asp Leu Leu Pro His Leu Ala Arg
 130 135 140

Lys Arg Arg Arg Pro Val Ser Pro Glu Arg Tyr Ser Tyr Gly Thr Ser
 145 150 155 160

Ser Ser Ser Lys Arg Thr Glu Gly Ser Cys Arg Arg Arg Arg Gln Ser
 165 170 175

4186

Ser Ser Ser Ala Asn Ser Gln Gln Gly Gln Trp Glu Thr Gly Ser Pro
 180 185 190
 Pro Thr Lys Arg Gln Arg Arg Ser Arg Gly Arg Pro Ser Gly Gly Ala
 195 200 205
 Arg Arg Arg Arg Arg Gly Ala Pro Ala Ala Pro Gln Gln Gln Ser Glu
 210 215 220
 Pro Ala Arg Pro Ser Ser Ser Glu Gly Lys Val Thr Cys Asp Ile Arg Leu
 225 230 235 240
 Arg Val Arg Ala Glu Tyr Cys Glu His Gly Pro Ala Leu Glu Gln Gly
 245 250 255
 Val Ala Ser Arg Arg Pro Gln Ala Leu Ala Arg Gln Leu Asp Val Phe
 260 265 270
 Gly Gln Ala Thr Ala Val Leu Arg Ser Arg Asp Leu Gly Ser Val Val
 275 280 285
 Cys Asp Ile Lys Phe Ser Glu Leu Ser Tyr Leu Asp Ala Phe Trp Gly
 290 295 300
 Asp Tyr Leu Ser Gly Ala Leu Leu Gln Ala Leu Arg Gly Val Phe Leu
 305 310 315 320
 Thr Glu Ala Leu Arg Glu Ala Val Gly Arg Glu Ala Val Arg Leu Leu
 325 330 335
 Val Ser Val Asp Glu Ala Asp Tyr Glu Ala Gly Arg Arg Arg Leu Leu
 340 345 350
 Leu Met Glu Glu Glu Gly Gly Arg Arg Pro Thr Glu Ala Ser
 355 360 365

<210> 4617

<211> 482

<212> PRT

<213> Homo sapiens

<400> 4617

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr
 1 5 10 15
 Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Met Val Leu Gln
 20 25 30
 Thr Thr Lys Gly Leu Arg Leu Leu Phe Asp Gly Asp Ala His Leu Leu

4187

35					40					45					
Met	Ser	Ile	Pro	Ser	Pro	Phe	Arg	Gly	Arg	Leu	Cys	Gly	Leu	Cys	Gly
	50					55					60				
Asn	Phe	Asn	Gly	Asn	Trp	Ser	Asp	Asp	Phe	Val	Leu	Pro	Asn	Gly	Ser
65					70					75					80
Ala	Ala	Ser	Ser	Val	Glu	Thr	Phe	Gly	Ala	Ala	Trp	Arg	Val	Pro	Gly
				85					90					95	
Ser	Ser	Lys	Gly	Cys	Gly	Glu	Gly	Cys	Gly	Pro	Gln	Gly	Cys	Pro	Val
			100					105					110		
Cys	Leu	Ala	Glu	Glu	Thr	Ala	Pro	Tyr	Glu	Ser	Asn	Glu	Ala	Cys	Gly
		115					120					125			
Gln	Leu	Arg	Asn	Pro	Gln	Gly	Pro	Phe	Ala	Thr	Cys	Gln	Ala	Val	Leu
	130					135					140				
Ser	Pro	Ser	Glu	Tyr	Phe	Arg	Gln	Cys	Val	Tyr	Asp	Leu	Cys	Ala	Gln
145					150					155					160
Lys	Gly	Asp	Lys	Ala	Phe	Leu	Cys	Arg	Ser	Leu	Ala	Ala	Tyr	Thr	Ala
				165					170					175	
Ala	Cys	Gln	Ala	Ala	Gly	Val	Ala	Val	Lys	Pro	Trp	Arg	Thr	Asp	Ser
			180					185					190		
Phe	Cys	Pro	Leu	His	Cys	Pro	Ala	His	Ser	His	Tyr	Ser	Ile	Cys	Thr
		195					200					205			
Arg	Thr	Cys	Gln	Gly	Ser	Cys	Ala	Ala	Leu	Ser	Gly	Leu	Thr	Gly	Cys
	210					215					220				
Thr	Thr	Arg	Cys	Phe	Glu	Gly	Cys	Glu	Cys	Asp	Asp	Arg	Phe	Leu	Leu
225					230					235					240
Ser	Gln	Gly	Val	Cys	Ile	Pro	Val	Gln	Asp	Cys	Gly	Cys	Thr	His	Asn
				245					250					255	
Gly	Arg	Tyr	Leu	Pro	Val	Asn	Ser	Ser	Leu	Leu	Thr	Ser	Asp	Cys	Ser
			260					265					270		
Glu	Arg	Cys	Ser	Cys	Ser	Ser	Ser	Ser	Gly	Leu	Thr	Cys	Gln	Ala	Ala
		275					280					285			
Gly	Cys	Pro	Pro	Gly	Arg	Val	Cys	Glu	Val	Lys	Ala	Glu	Ala	Arg	Asn
	290					295					300				
Cys	Trp	Ala	Thr	Arg	Gly	Leu	Cys	Val	Leu	Ser	Val	Gly	Ala	Asn	Leu

4188

305 310 315 320
 Thr Thr Phe Asp Gly Ala Arg Gly Ala Thr Thr Ser Pro Gly Val Tyr
 325 330 335
 Glu Leu Ser Ser Arg Cys Pro Gly Leu Gln Asn Thr Ile Pro Trp Tyr
 340 345 350
 Arg Val Val Ala Glu Val Gln Ile Cys His Gly Lys Thr Glu Ala Val
 355 360 365
 Gly Gln Val His Ile Phe Phe Gln Asp Gly Met Val Thr Leu Thr Pro
 370 375 380
 Asn Lys Gly Val Trp Val Asn Gly Leu Arg Val Asp Leu Pro Ala Glu
 385 390 395 400
 Lys Leu Ala Ser Val Ser Val Ser Arg Thr Pro Asp Gly Ser Leu Leu
 405 410 415
 Val Arg Gln Lys Ala Gly Val Gln Val Trp Leu Gly Ala Asn Gly Lys
 420 425 430
 Val Ala Val Ile Val Ser Asn Asp His Ala Gly Lys Leu Cys Gly Ala
 435 440 445
 Cys Gly Asn Phe Asp Gly Asp Gln Thr Asn Asp Trp His Asp Ser Gln
 450 455 460
 Glu Lys Pro Ala Met Glu Lys Trp Arg Ala Gln Asp Phe Ser Pro Cys
 465 470 475 480
 Tyr Gly

<210> 4618

<211> 552

<212> PRT

<213> Homo sapiens

<400> 4618

Thr Val Gly Ser Asp Arg Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala
 1 5 10 15
 Ala Ser Gly Gly Thr Ser Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr
 20 25 30
 Val Ile Arg Lys Lys Tyr Pro Thr Asp Gly Ser Glu Ile Val Leu Leu
 35 40 45

4189

Thr	Asp	Gly	Glu	Asp	Asn	Thr	Ile	Ser	Gly	Cys	Phe	Asn	Glu	Val	Lys
50						55					60				
Gln	Ser	Gly	Ala	Ile	Ile	His	Thr	Val	Ala	Leu	Gly	Pro	Ser	Ala	Ala
65					70					75					80
Gln	Glu	Leu	Glu	Glu	Leu	Ser	Lys	Met	Thr	Gly	Gly	Leu	Gln	Thr	Tyr
				85					90					95	
Ala	Ser	Asp	Gln	Val	Gln	Asn	Asn	Gly	Leu	Ile	Asp	Ala	Phe	Gly	Ala
			100					105					110		
Leu	Ser	Ser	Gly	Asn	Gly	Ala	Val	Ser	Gln	Arg	Ser	Ile	Gln	Leu	Glu
		115					120					125			
Ser	Lys	Gly	Leu	Thr	Leu	Gln	Asn	Ser	Gln	Trp	Met	Asn	Gly	Thr	Val
130						135					140				
Ile	Val	Asp	Ser	Thr	Val	Gly	Lys	Asp	Thr	Leu	Phe	Leu	Ile	Thr	Trp
145					150					155					160
Thr	Thr	Gln	Pro	Pro	Gln	Ile	Leu	Leu	Trp	Asp	Pro	Ser	Gly	Gln	Lys
				165					170					175	
Gln	Gly	Gly	Phe	Val	Val	Asp	Lys	Asn	Thr	Lys	Met	Ala	Tyr	Leu	Gln
			180					185					190		
Ile	Pro	Gly	Ile	Ala	Lys	Val	Gly	Thr	Trp	Lys	Tyr	Ser	Leu	Gln	Ala
		195					200					205			
Ser	Ser	Gln	Thr	Leu	Thr	Leu	Thr	Val	Thr	Ser	Arg	Ala	Ser	Asn	Ala
		210				215					220				
Thr	Leu	Pro	Pro	Ile	Thr	Val	Thr	Ser	Lys	Thr	Asn	Lys	Asp	Thr	Ser
225					230					235					240
Lys	Phe	Pro	Ser	Pro	Leu	Val	Val	Tyr	Ala	Asn	Ile	Arg	Gln	Gly	Ala
				245					250					255	
Ser	Pro	Ile	Leu	Arg	Ala	Ser	Val	Thr	Ala	Leu	Ile	Glu	Ser	Val	Asn
			260					265					270		
Gly	Lys	Thr	Val	Thr	Leu	Glu	Leu	Leu	Asp	Asn	Gly	Ala	Gly	Ala	Asp
		275					280					285			
Ala	Thr	Lys	Asp	Asp	Gly	Val	Tyr	Ser	Arg	Tyr	Phe	Thr	Thr	Tyr	Asp
		290				295					300				
Thr	Asn	Gly	Arg	Tyr	Ser	Val	Lys	Val	Arg	Ala	Leu	Gly	Gly	Val	Asn
305					310					315					320

4190

Ala	Ala	Arg	Arg	Arg	Val	Ile	Pro	Gln	Gln	Ser	Gly	Ala	Leu	Tyr	Ile		
				325							330			335			
Pro	Gly	Trp	Ile	Glu	Asn	Asp	Glu	Ile	Gln	Trp	Asn	Pro	Pro	Arg	Pro		
				340							345			350			
Glu	Ile	Asn	Lys	Asp	Asp	Val	Gln	His	Lys	Gln	Val	Cys	Phe	Ser	Arg		
				355							360			365			
Thr	Ser	Ser	Gly	Gly	Ser	Phe	Val	Ala	Ser	Asp	Val	Pro	Asn	Ala	Pro		
				370							375			380			
Ile	Pro	Asp	Leu	Phe	Pro	Pro	Gly	Gln	Ile	Thr	Asp	Leu	Lys	Ala	Glu		
385				390							395			400			
Ile	His	Gly	Gly	Ser	Leu	Ile	Asn	Leu	Thr	Trp	Thr	Ala	Pro	Gly	Asp		
				405							410			415			
Asp	Tyr	Asp	His	Gly	Thr	Ala	His	Lys	Tyr	Ile	Ile	Arg	Ile	Ser	Thr		
				420							425			430			
Ser	Ile	Leu	Asp	Leu	Arg	Asp	Lys	Phe	Asn	Glu	Ser	Leu	Gln	Val	Asn		
				435							440			445			
Thr	Thr	Ala	Leu	Ile	Pro	Lys	Glu	Ala	Asn	Ser	Glu	Glu	Val	Phe	Leu		
				450							455			460			
Phe	Lys	Pro	Glu	Thr	Ile	Thr	Phe	Glu	Asn	Gly	Thr	Asp	Leu	Phe	Ile		
465				470							475			480			
Ala	Ile	Gln	Ala	Val	Asp	Lys	Val	Asp	Leu	Lys	Ser	Glu	Ile	Ser	Asn		
				485							490			495			
Ile	Ala	Arg	Val	Ser	Leu	Phe	Ile	Pro	Pro	Gln	Thr	Pro	Pro	Glu	Thr		
				500							505			510			
Pro	Ser	Pro	Asp	Glu	Thr	Ser	Ala	Pro	Cys	Pro	Asn	Ile	His	Ile	Asn		
				515							520			525			
Ser	Thr	Ile	Pro	Gly	Ile	His	Ile	Leu	Lys	Ile	Met	Trp	Lys	Trp	Ile		
				530							535			540			
Gly	Glu	Leu	Gln	Leu	Ser	Ile	Ala										
545				550													

<210> 4619

<211> 501

<212> PRT

4191

<213> Homo sapiens

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4619

Gly	Thr	Ser	Gly	Gly	Gly	Ala	Gly	Ala	Met	Ala	Val	Leu	Leu	Glu	Thr
1				5					10					15	

Thr	Leu	Gly	Asp	Val	Val	Ile	Asp	Leu	Tyr	Thr	Glu	Glu	Arg	Pro	Arg
			20					25					30		

Ala	Cys	Leu	Asn	Phe	Leu	Lys	Leu	Cys	Lys	Ile	Lys	Tyr	Tyr	Asn	Tyr
		35					40					45			

Cys	Leu	Ile	His	Asn	Val	Gln	Arg	Asp	Phe	Ile	Ile	Gln	Thr	Gly	Asp
	50					55					60				

Pro	Thr	Gly	Thr	Gly	Arg	Gly	Gly	Glu	Ser	Ile	Phe	Gly	Gln	Leu	Tyr
65					70					75					80

Gly	Asp	Gln	Ala	Ser	Phe	Phe	Glu	Ala	Glu	Lys	Val	Pro	Arg	Ile	Lys
				85					90					95	

His	Lys	Lys	Lys	Gly	Thr	Val	Ser	Met	Val	Asn	Asn	Gly	Ser	Asp	Gln
			100					105					110		

His	Gly	Ser	Gln	Phe	Leu	Ile	Thr	Thr	Gly	Glu	Asn	Leu	Asp	Tyr	Leu
	115						120					125			

Asp	Gly	Val	His	Thr	Val	Phe	Gly	Glu	Val	Thr	Glu	Gly	Met	Asp	Ile
	130					135					140				

Ile	Lys	Lys	Ile	Asn	Glu	Thr	Phe	Val	Asp	Lys	Asp	Phe	Val	Pro	Tyr
145				150						155					160

Gln	Asp	Ile	Arg	Ile	Asn	His	Thr	Val	Ile	Leu	Asp	Asp	Pro	Phe	Asp
			165						170					175	

Asp	Pro	Xaa	Asp	Leu	Leu	Ile	Pro	Asp	Arg	Ser	Pro	Glu	Pro	Thr	Arg
		180						185					190		

Glu	Gln	Leu	Asp	Ser	Gly	Arg	Ile	Gly	Ala	Asp	Glu	Glu	Ile	Asp	Asp
	195						200					205			

Phe	Lys	Gly	Arg	Ser	Ala	Glu	Glu	Val	Glu	Glu	Ile	Lys	Ala	Glu	Lys
	210					215					220				

Glu	Ala	Lys	Thr	Gln	Ala	Ile	Leu	Leu	Glu	Met	Val	Gly	Asp	Leu	Pro
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4192

225		230		235		240
Asp Ala Asp Ile Lys Pro Pro Glu Asn Val Leu Phe Val Cys Lys Leu						
	245		250		255	
Asn Pro Val Thr Thr Asp Glu Asp Leu Glu Ile Ile Phe Ser Arg Phe						
	260		265		270	
Gly Pro Ile Arg Ser Cys Glu Val Ile Arg Asp Trp Lys Thr Gly Glu						
	275		280		285	
Ser Leu Cys Tyr Ala Phe Ile Glu Phe Glu Lys Glu Glu Asp Cys Glu						
	290		295		300	
Lys Ala Phe Phe Lys Met Asp Asn Val Leu Ile Asp Asp Arg Arg Ile						
305		310		315		320
His Val Asp Phe Ser Gln Ser Val Ala Lys Val Lys Trp Lys Gly Lys						
	325		330		335	
Gly Gly Lys Tyr Thr Lys Ser Asp Phe Lys Glu Tyr Glu Lys Glu Gln						
	340		345		350	
Asp Lys Pro Pro Asn Leu Val Leu Lys Asp Lys Val Lys Pro Lys Gln						
	355		360		365	
Asp Thr Lys Tyr Asp Leu Ile Leu Asp Glu Gln Ala Glu Asp Ser Lys						
	370		375		380	
Ser Ser His Ser His Thr Ser Lys Lys His Lys Lys Lys Thr His His						
385		390		395		400
Cys Ser Glu Glu Lys Glu Asp Glu Asp Tyr Met Pro Ile Lys Asn Thr						
	405		410		415	
Asn Gln Asp Ile Tyr Arg Glu Met Gly Phe Gly His Tyr Glu Glu Glu						
	420		425		430	
Glu Ser Cys Trp Glu Lys Gln Lys Ser Glu Lys Arg Asp Arg Thr Gln						
	435		440		445	
Asn Arg Ser Arg Ser Arg Ser Arg Glu Arg Asp Gly His Tyr Ser Asn						
	450		455		460	
Ser His Lys Ser Lys Tyr Gln Thr Asp Leu Tyr Glu Arg Glu Arg Ser						
465		470		475		480
Lys Lys Arg Asp Arg Ser Arg Ser Pro Lys Lys Ser Lys Asp Lys Glu						
	485		490		495	
Lys Ser Lys Tyr Arg						

4193

500

<210> 4620

<211> 63

<212> PRT

<213> Homo sapiens

<400> 4620

Asn	Phe	Leu	Leu	Phe	Thr	Asn	Ser	Asp	Glu	Ile	Gln	Phe	Phe	Arg	Arg
1				5					10					15	

Leu	Ser	Phe	Leu	Glu	Gln	Ala	Thr	Ser	Leu	Pro	Leu	Glu	Cys	Pro	Ile
			20					25					30		

Thr	Tyr	Ser	Ser	Thr	Phe	Ser	Phe	Cys	Ser	Arg	Cys	Leu	Leu	Lys	Arg
		35					40					45			

Ser	Gly	Ala	Val	Gly	Gly	Tyr	Ala	His	Leu	Ser	Ser	Ser	Val	Gln	
	50					55					60				

<210> 4621

<211> 50

<212> PRT

<213> Homo sapiens

<400> 4621

Ser	Gln	His	Phe	Gly	Arg	Pro	Arg	Trp	Thr	Asp	His	Leu	Arg	Ser	Gly
1				5					10					15	

Val	Arg	Asp	Gln	Pro	Gly	Gln	His	Gly	Gln	Thr	Trp	Ser	Leu	Leu	Lys
			20					25					30		

Ile	Gln	Lys	Leu	Ala	Gly	Val	Ala	Arg	Cys	Arg	Ala	Val	Trp	Gly	Arg
		35					40					45			

His	Gly														
	50														

<210> 4622

<211> 81

<212> PRT

<213> Homo sapiens

<400> 4622

Gly	Thr	Arg	Trp	Pro	Cys	Gly	Lys	His	Lys	Arg	Val	Leu	Ile	Phe	Pro
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4194

1	5							10							15						
Ser Tyr Met Thr Thr Val Ile Asp Tyr Val Lys Pro Ser Asp Leu Lys																					
	20						25						30								
Lys Asp Met Asn Glu Thr Phe Lys Glu Lys Phe Pro His Ile Lys Leu																					
	35						40						45								
Thr Leu Ser Lys Ile Arg Ser Leu Lys Arg Glu Met Arg Asn Leu Arg																					
	50						55						60								
Arg Arg Thr Val Ala Leu Arg Ser Pro Arg Trp Pro Trp Pro Arg Leu																					
65	70						75								80						
Leu																					

```
<210> 4623
<211> 139
<212> PRT
<213> Homo sapiens
```

```

<400> 4623
Ser Gln His Phe Leu Ser Leu Pro Leu Trp Phe Glu Gly Tyr Gly Leu
  1             5             10             15
Leu Gln Tyr Ile Ser Ser Phe Lys Ser Cys His Cys Phe Val Gly Pro
  20             25             30
Gln Leu Ile Gly Pro Gln Asn Lys Pro Cys Cys Phe Ala His Thr Leu
  35             40             45
Ala Phe Phe Cys Thr Phe His Ser Gly Trp Ala Trp Pro Lys Gln Ala
  50             55             60
Gln Ala Lys Asp Leu Pro Ser Cys Met Tyr Phe Gln Tyr Pro Glu Thr
  65             70             75             80
Val Phe Gly Asp Ile Met Pro Arg Val Asn Lys Pro Asp Leu Gly Thr
  85             90             95
Ala Leu Ser Arg Gly Phe Thr His Glu Ile Asn Lys Thr Tyr Leu Ser
  100            105            110
His Leu Lys Leu Gly Ser Gln Lys Thr His Phe Trp Phe Ile Ile Ser
  115            120            125
Phe Tyr Ala His Leu Thr Leu Ile Ile Tyr Pro
  130            135

```


4195

<210> 4624

<211> 90

<212> PRT

<213> Homo sapiens

<400> 4624

Gly	Thr	Arg	Arg	His	Pro	Ala	Pro	Ser	Ala	Gly	Cys	Ala	Ser	Gly	Ala
1				5					10					15	
Glu	Val	Arg	Asp	Lys	Met	Val	Pro	Pro	Val	Gln	Val	Ser	Pro	Leu	Ile
			20					25					30		
Lys	Leu	Gly	Arg	Tyr	Ser	Ala	Leu	Phe	Leu	Gly	Val	Ala	Tyr	Gly	Ala
		35					40					45			
Thr	Arg	Tyr	Asn	Tyr	Leu	Lys	Pro	Arg	Ala	Glu	Glu	Glu	Arg	Arg	Ile
		50				55					60				
Ala	Ala	Glu	Glu	Lys	Lys	Lys	Gln	Asp	Glu	Leu	Lys	Arg	Ile	Ala	Arg
65					70					75					80
Glu	Leu	Ala	Glu	Asp	Asp	Ser	Ile	Leu	Lys						
				85					90						

<210> 4625

<211> 328

<212> PRT

<213> Homo sapiens

<400> 4625

Gln	Ala	Thr	Gly	Gly	Pro	Glu	Leu	Ala	Ser	Ser	Val	Leu	Ser	Pro	Leu
1				5					10					15	
Leu	Asn	Lys	Asp	Thr	Ile	Asp	Phe	Leu	Asn	Tyr	Thr	Val	Asn	Gly	Asp
			20					25					30		
Glu	Arg	Gln	Leu	Trp	Met	Ser	Leu	Gly	Gly	Thr	Trp	Met	Lys	Ala	Arg
		35					40					45			
Ala	Glu	Trp	Pro	Lys	Glu	Gln	Phe	Ile	Pro	Pro	Tyr	Val	Pro	Arg	Phe
	50					55					60				
Arg	Asn	Gly	Trp	Glu	Pro	Pro	Met	Leu	Asn	Phe	Met	Gly	Ala	Thr	Met
65					70					75					80
Glu	Gln	Asp	Leu	Tyr	Gln	Leu	Ala	Glu	Ser	Val	Ala	Asn	Val	Ala	Glu

4196

				85				90				95					
His	Gln	Arg	Lys	Gln	Glu	Ile	Lys	Arg	Leu	Ser	Thr	Glu	His	Ser	Ser		
			100					105				110					
Val	Ser	Glu	Tyr	His	Pro	Ala	Asp	Gly	Tyr	Ala	Phe	Ser	Ser	Asn	Ile		
			115				120				125						
Tyr	Thr	Arg	Gly	Ser	His	Leu	Asp	Gln	Gly	Glu	Ala	Ala	Val	Ala	Phe		
			130				135				140						
Lys	Pro	Thr	Ser	Asn	Arg	His	Ile	Asp	Arg	Asn	Tyr	Glu	Pro	Leu	Lys		
145				150						155			160				
Thr	Gln	Pro	Lys	Lys	Tyr	Ala	Lys	Ser	Lys	Tyr	Asp	Phe	Val	Ala	Arg		
			165						170			175					
Asn	Asn	Ser	Glu	Leu	Ser	Val	Leu	Lys	Asp	Asp	Ile	Leu	Glu	Ile	Leu		
			180						185			190					
Asp	Asp	Arg	Lys	Gln	Trp	Trp	Lys	Val	Arg	Asn	Ala	Ser	Gly	Asp	Ser		
			195			200						205					
Gly	Phe	Val	Pro	Asn	Asn	Ile	Leu	Asp	Ile	Val	Arg	Pro	Pro	Glu	Ser		
			210			215						220					
Gly	Leu	Gly	Arg	Ala	Asp	Pro	Pro	Tyr	Thr	His	Thr	Ile	Gln	Lys	Gln		
225				230						235			240				
Arg	Met	Glu	Tyr	Gly	Pro	Arg	Pro	Ala	Asp	Thr	Pro	Pro	Ala	Pro	Ser		
			245						250			255					
Pro	Pro	Pro	Thr	Pro	Ala	Pro	Val	Pro	Val	Pro	Leu	Pro	Pro	Ser	Thr		
			260						265			270					
Pro	Ala	Pro	Val	Pro	Val	Ser	Lys	Val	Pro	Ala	Asn	Ile	Thr	Arg	Gln		
			275			280						285					
Asn	Ser	Ser	Ser	Ser	Asp	Ser	Gly	Gly	Ser	Ile	Val	Arg	Asp	Ser	Gln		
			290			295						300					
Arg	His	Lys	Gln	Leu	Pro	Val	Asp	Arg	Arg	Asn	Leu	Arg	Trp	Arg	Lys		
305				310						315			320				
Cys	Lys	Met	Asn	Ser	Ser	Thr	Asp										
			325														

<210> 4626

<211> 578

4197

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4626

Gly	Val	Gly	Asp	Gly	Gln	Ala	Pro	Met	Pro	Gly	Xaa	Thr	Glu	Glu	Pro
1				5					10					15	

Arg	Pro	Pro	Glu	Gln	Gln	Asp	Gln	Glu	Gly	Gly	Glu	Ala	Ala	Lys	Ala
			20					25						30	

Ala	Pro	Glu	Xaa	Pro	Gln	Gln	Arg	Pro	Pro	Glu	Ala	Val	Ala	Ala	Ala
			35					40					45		

Pro	Ala	Gly	Thr	Thr	Ser	Ser	Arg	Val	Leu	Arg	Gly	Gly	Arg	Asp	Arg
			50				55					60			

Gly	Arg	Ala	Ala	Ala	Ala	Arg	Arg	Arg	Xaa	Ser	Cys	Val	Pro	Pro	Glu
	65					70					75				80

Xaa	Gly	Arg	Val	Ser	Pro	Pro	Ala	Xaa	Glu	Gln	Pro	Gln	Arg	Gln	Ala
				85						90				95	

Ser	Arg	Arg	Pro	Arg	Ala	Ala	Ala	Gln	Ala	Ala	Lys	Ser	Pro	Ser	Pro
			100					105					110		

Val	Gln	Gly	Lys	Lys	Ser	Pro	Arg	Leu	Leu	Cys	Ile	Glu	Lys	Val	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4198

115		120		125
Thr Asp Lys Asp Pro Lys Glu Glu Lys Glu Glu Glu Asp Asp Ser Ala				
130		135		140
Leu Pro Gln Glu Val Ser Ile Ala Ala Ser Arg Pro Ser Arg Gly Trp				
145		150		155
Arg Ser Ser Arg Thr Ser Val Ser Arg His Arg Asp Thr Glu Asn Thr				
		165		170
Arg Ser Ser Arg Ser Lys Thr Gly Ser Leu Gln Leu Ile Cys Lys Ser				
		180		185
Glu Pro Asn Thr Asp Gln Leu Asp Tyr Asp Val Gly Glu Glu His Gln				
		195		200
Ser Pro Gly Gly Ile Ser Ser Glu Glu Glu Glu Glu Glu Glu Glu Glu				
		210		215
Met Leu Ile Ser Glu Glu Glu Ile Pro Phe Lys Asp Asp Pro Arg Asp				
		225		230
Glu Thr Tyr Lys Pro His Leu Glu Arg Glu Thr Pro Lys Pro Arg Arg				
		245		250
Lys Ser Gly Lys Val Lys Glu Glu Lys Glu Lys Lys Glu Ile Lys Val				
		260		265
Glu Val Glu Val Glu Val Lys Glu Glu Glu Asn Glu Ile Arg Glu Asp				
		275		280
Glu Glu Pro Pro Arg Lys Arg Gly Arg Arg Arg Lys Asp Asp Lys Ser				
		290		295
Pro Arg Leu Pro Lys Arg Arg Lys Lys Pro Pro Ile Gln Tyr Val Arg				
		305		310
Cys Glu Met Glu Gly Cys Gly Thr Val Leu Ala His Pro Arg Tyr Leu				
		325		330
Gln His His Ile Lys Tyr Gln His Leu Leu Lys Lys Lys Tyr Val Cys				
		340		345
Pro His Pro Ser Cys Gly Arg Leu Phe Arg Leu Gln Lys Gln Leu Leu				
		355		360
Arg His Ala Lys His His Thr Asp Gln Arg Asp Tyr Ile Cys Glu Tyr				
		370		375
Cys Ala Arg Ala Phe Lys Ser Ser His Asn Leu Ala Val His Arg Met				

4199

385 390 395 400
 Ile His Thr Gly Glu Lys Pro Leu Gln Cys Glu Ile Cys Gly Phe Thr
 405 410 415
 Cys Arg Gln Lys Ala Ser Leu Asn Trp His Met Lys Lys His Asp Ala
 420 425 430
 Asp Ser Phe Tyr Gln Phe Ser Cys Asn Ile Cys Gly Lys Lys Phe Glu
 435 440 445
 Lys Lys Asp Ser Val Val Ala His Lys Ala Lys Ser His Pro Glu Val
 450 455 460
 Leu Ile Ala Glu Ala Leu Ala Ala Asn Ala Gly Ala Leu Ile Thr Ser
 465 470 475 480
 Thr Asp Ile Leu Gly Thr Asn Pro Glu Ser Leu Thr Gln Pro Ser Asp
 485 490 495
 Gly Gln Gly Leu Pro Leu Leu Pro Glu Pro Leu Gly Asn Ser Thr Ser
 500 505 510
 Gly Glu Cys Leu Leu Leu Glu Ala Glu Gly Met Ser Lys Ser Tyr Cys
 515 520 525
 Ser Gly Thr Glu Arg Val Ser Leu Met Ala Asp Gly Lys Ile Phe Val
 530 535 540
 Gly Ser Gly Ser Ser Gly Gly Thr Glu Gly Leu Val Met Asn Ser Asp
 545 550 555 560
 Ile Leu Gly Ala Thr Thr Glu Val Leu Ile Glu Asp Ser Asp Ser Ala
 565 570 575
 Gly Pro

<210> 4627

<211> 263

<212> PRT

<213> Homo sapiens

<400> 4627

Lys Ile Met Ala Ser Pro Asp Trp Gly Tyr Asp Asp Lys Asn Gly Pro
 1 5 10 15

Glu Gln Trp Ser Lys Leu Tyr Pro Ile Ala Asn Gly Asn Asn Gln Ser
 20 25 30

4200

Pro Val Asp Ile Lys Thr Ser Glu Thr Lys His Asp Thr Ser Leu Lys
 35 40 45

Pro Ile Ser Val Ser Tyr Asn Pro Ala Thr Ala Lys Glu Ile Ile Asn
 50 55 60

Val Gly His Ser Phe His Val Asn Phe Glu Asp Asn Asp Asn Arg Ser
 65 70 75 80

Val Leu Lys Gly Gly Pro Phe Ser Asp Ser Tyr Arg Leu Phe Gln Phe
 85 90 95

His Phe His Trp Gly Ser Thr Asn Glu His Gly Ser Glu His Thr Val
 100 105 110

Asp Gly Val Lys Tyr Ser Ala Glu Leu His Val Ala His Trp Asn Ser
 115 120 125

Ala Lys Tyr Ser Ser Leu Ala Glu Ala Ala Ser Lys Ala Asp Gly Leu
 130 135 140

Ala Val Ile Gly Val Leu Met Lys Val Gly Glu Ala Asn Pro Lys Leu
 145 150 155 160

Gln Lys Val Leu Asp Ala Leu Gln Ala Ile Lys Thr Lys Gly Lys Arg
 165 170 175

Ala Pro Phe Thr Asn Phe Asp Pro Ser Thr Leu Leu Pro Ser Ser Leu
 180 185 190

Asp Phe Trp Thr Tyr Pro Gly Ser Leu Thr His Pro Pro Leu Tyr Glu
 195 200 205

Ser Val Thr Trp Ile Ile Cys Lys Glu Ser Ile Ser Val Ser Ser Glu
 210 215 220

Gln Leu Ala Gln Phe Arg Ser Leu Leu Ser Asn Val Glu Gly Asp Asn
 225 230 235 240

Ala Val Pro Met Gln His Asn Asn Arg Pro Thr Gln Pro Leu Lys Gly
 245 250 255

Arg Thr Val Arg Ala Ser Phe
 260

<210> 4628

<211> 301

<212> PRT

4201

<213> Homo sapiens

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (185)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4628

Ala	Asp	Ala	Trp	Gly	Arg	Thr	Ala	Glu	Leu	Thr	Val	Thr	Ala	Ala	Leu
1				5					10					15	

Thr	Arg	Glu	Phe	Leu	Glu	Pro	Lys	Leu	Phe	Ser	Thr	Glu	Asp	Lys	Gln
		20						25					30		

Ala	Ala	Glu	Thr	Met	Gly	Ser	Pro	Ser	Ala	Cys	Pro	Tyr	Arg	Val	Cys
		35					40					45			

Ile	Pro	Trp	Gln	Gly	Leu	Leu	Leu	Thr	Ala	Ser	Leu	Leu	Thr	Phe	Trp
	50					55					60				

Asn	Leu	Pro	Asn	Ser	Ala	Gln	Thr	Asn	Ile	Asp	Val	Val	Pro	Phe	Asn
65					70					75					80

Val	Ala	Glu	Gly	Lys	Glu	Val	Leu	Leu	Val	Val	His	Asn	Glu	Ser	Gln
				85					90					95	

Asn	Leu	Tyr	Gly	Tyr	Asn	Trp	Tyr	Lys	Gly	Glu	Arg	Val	His	Ala	Asn
			100					105					110		

Tyr	Arg	Ile	Ile	Gly	Tyr	Val	Lys	Asn	Ile	Ser	Gln	Glu	Asn	Ala	Pro
		115					120					125			

Gly	Pro	Ala	His	Asn	Gly	Arg	Glu	Thr	Ile	Tyr	Pro	Asn	Gly	Thr	Leu
	130					135					140				

Leu	Ile	Gln	Asn	Val	Thr	His	Asn	Asp	Ala	Gly	Xaa	Tyr	Thr	Leu	His
145					150					155					160

Val	Ile	Lys	Glu	Asn	Leu	Val	Asn	Glu	Glu	Val	Thr	Arg	Gln	Phe	Tyr
				165					170					175	

Val	Phe	Ser	Glu	Pro	Pro	Lys	Pro	Xaa	Ile	Thr	Ser	Asn	Asn	Phe	Asn
			180					185					190		

Pro	Val	Glu	Asn	Lys	Asp	Ile	Val	Val	Leu	Thr	Cys	Gln	Pro	Glu	Thr
			195				200					205			

4202

Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Leu Val
 210 215 220
 Ser Pro Arg Leu Leu Leu Ser Thr Asp Asn Arg Thr Leu Val Leu Leu
 225 230 235 240
 Ser Ala Thr Lys Asn Asp Ile Gly Pro Tyr Glu Cys Glu Ile Gln Asn
 245 250 255
 Pro Val Gly Ala Ser Arg Ser Asp Pro Val Thr Leu Asn Val Arg Tyr
 260 265 270
 Glu Ser Val Gln Ala Ser Ser Pro Asp Leu Ser Ala Gly Thr Ala Val
 275 280 285
 Ser Ile Met Ile Gly Val Leu Ala Gly Met Ala Leu Ile
 290 295 300

<210> 4629

<211> 256

<212> PRT

<213> Homo sapiens

<400> 4629

Pro Ala Gly Ala Gly Cys Arg Ala Gly Glu Arg Ala Gly Gln Ala Lys
 1 5 10 15
 Ala Leu Val Pro Ala Arg Cys Gly Pro Gln Ser Ala Ala Met Gly Ala
 20 25 30
 Ser Ala Arg Leu Leu Arg Ala Val Ile Met Gly Ala Pro Gly Ser Gly
 35 40 45
 Lys Gly Thr Val Ser Ser Arg Ile Thr Thr His Phe Glu Leu Lys His
 50 55 60
 Leu Ser Ser Gly Asp Leu Leu Arg Asp Asn Met Leu Arg Gly Thr Glu
 65 70 75 80
 Ile Gly Val Leu Ala Lys Ala Phe Ile Asp Gln Gly Lys Leu Ile Pro
 85 90 95
 Asp Asp Val Met Thr Arg Leu Ala Leu His Glu Leu Lys Asn Leu Thr
 100 105 110
 Gln Tyr Ser Trp Leu Leu Asp Gly Phe Pro Arg Thr Leu Pro Gln Ala
 115 120 125

4203

Glu Ala Leu Asp Arg Ala Tyr Gln Ile Asp Thr Val Ile Asn Leu Asn
 130 135 140
 Val Pro Phe Glu Val Ile Lys Gln Arg Leu Thr Ala Arg Trp Ile His
 145 150 155 160
 Pro Ala Ser Gly Arg Val Tyr Asn Ile Glu Phe Asn Pro Pro Lys Thr
 165 170 175
 Val Gly Ile Asp Asp Leu Thr Gly Glu Pro Leu Ile Gln Arg Glu Asp
 180 185 190
 Asp Lys Pro Glu Thr Val Ile Lys Arg Leu Lys Ala Tyr Glu Asp Gln
 195 200 205
 Thr Lys Pro Val Leu Glu Tyr Tyr Gln Lys Lys Gly Val Leu Glu Thr
 210 215 220
 Phe Ser Gly Thr Glu Thr Asn Lys Ile Trp Pro Tyr Val Tyr Ala Phe
 225 230 235 240
 Leu Gln Thr Lys Val Pro Gln Arg Ser Gln Lys Ala Ser Val Thr Pro
 245 250 255

<210> 4630
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 4630
 Asp Trp Gly Leu Ala Arg Ser Arg Pro Gly Cys Lys Cys Cys Gly Gly
 1 5 10 15
 Arg Lys Ser Arg Pro His Arg Arg Gly Ser Ala Val Met Pro Lys Tyr
 20 25 30
 Tyr Glu Asp Lys Pro Gln Ala Ala Arg Cys Ala Gly Leu Lys Glu Asp
 35 40 45
 Leu Gly Ala Cys Leu Leu Gln Ser Asp Cys Val Val Gln Glu Gly Lys
 50 55 60
 Ser Pro Arg Gln Cys Leu Lys Glu Gly Tyr Cys Asn Ser Leu Lys Tyr
 65 70 75 80
 Ala Phe Phe Glu Cys Lys Arg Ser Val Leu Asp Asn Arg Ala Arg Phe

4204

85

90

95

Arg Gly Arg Lys Gly Tyr
100

<210> 4631

<211> 466

<212> PRT

<213> Homo sapiens

<400> 4631

Glu His Gln Glu Ile Met Asn Asn Phe Gly Asn Glu Glu Phe Asp Cys
1 5 10 15

His Phe Leu Asp Glu Gly Phe Thr Ala Lys Asp Ile Leu Asp Gln Lys
20 25 30

Ile Asn Glu Val Ser Ser Ser Asp Asp Lys Asp Ala Phe Tyr Val Ala
35 40 45

Asp Leu Gly Asp Ile Leu Lys Lys His Leu Arg Trp Leu Lys Ala Leu
50 55 60

Pro Arg Val Thr Pro Phe Tyr Ala Val Lys Cys Asn Asp Ser Lys Ala
65 70 75 80

Ile Val Lys Thr Leu Ala Ala Thr Gly Thr Gly Phe Asp Cys Ala Ser
85 90 95

Lys Thr Glu Ile Gln Leu Val Gln Ser Leu Gly Val Pro Pro Glu Arg
100 105 110

Ile Ile Tyr Ala Asn Pro Cys Lys Gln Val Ser Gln Ile Lys Tyr Ala
115 120 125

Ala Asn Asn Gly Val Gln Met Met Thr Phe Asp Ser Glu Val Glu Leu
130 135 140

Met Lys Val Ala Arg Ala His Pro Lys Ala Lys Leu Val Leu Arg Ile
145 150 155 160

Ala Thr Asp Asp Ser Lys Ala Val Cys Arg Leu Ser Val Lys Phe Gly
165 170 175

Ala Thr Leu Arg Thr Ser Arg Leu Leu Leu Glu Arg Ala Lys Glu Leu
180 185 190

Asn Ile Asp Val Val Gly Val Ser Phe His Val Gly Ser Gly Cys Thr
195 200 205

4205

Asp	Pro	Glu	Thr	Phe	Val	Gln	Ala	Ile	Ser	Asp	Ala	Arg	Cys	Val	Phe	210	215	220	
Asp	Met	Gly	Ala	Glu	Val	Gly	Phe	Ser	Met	Tyr	Leu	Leu	Asp	Ile	Gly	225	230	235	240
Gly	Gly	Phe	Pro	Gly	Ser	Glu	Asp	Val	Lys	Leu	Lys	Phe	Glu	Glu	Ile	245	250	255	
Thr	Gly	Val	Ile	Asn	Pro	Ala	Leu	Asp	Lys	Tyr	Phe	Pro	Ser	Asp	Ser	260	265	270	
Gly	Val	Arg	Ile	Ile	Ala	Glu	Pro	Gly	Arg	Tyr	Tyr	Val	Ala	Ser	Ala	275	280	285	
Phe	Thr	Leu	Ala	Val	Asn	Ile	Ile	Ala	Lys	Lys	Ile	Val	Leu	Lys	Glu	290	295	300	
Gln	Thr	Gly	Ser	Asp	Asp	Glu	Asp	Glu	Ser	Ser	Glu	Gln	Thr	Phe	Met	305	310	315	320
Tyr	Tyr	Val	Asn	Asp	Gly	Val	Tyr	Gly	Ser	Phe	Asn	Cys	Ile	Leu	Tyr	325	330	335	
Asp	His	Ala	His	Val	Lys	Pro	Leu	Leu	Gln	Lys	Arg	Pro	Lys	Pro	Asp	340	345	350	
Glu	Lys	Tyr	Tyr	Ser	Ser	Ser	Ile	Trp	Gly	Pro	Thr	Cys	Asp	Gly	Leu	355	360	365	
Asp	Arg	Ile	Val	Glu	Arg	Cys	Asp	Leu	Pro	Glu	Met	His	Val	Gly	Asp	370	375	380	
Trp	Met	Leu	Phe	Glu	Asn	Met	Gly	Ala	Tyr	Thr	Val	Ala	Ala	Ala	Ser	385	390	395	400
Thr	Phe	Asn	Gly	Phe	Gln	Arg	Pro	Thr	Ile	Tyr	Tyr	Val	Met	Ser	Gly	405	410	415	
Pro	Ala	Trp	Gln	Leu	Met	Gln	Gln	Phe	Gln	Asn	Pro	Asp	Phe	Pro	Pro	420	425	430	
Glu	Val	Glu	Glu	Gln	Asp	Ala	Ser	Thr	Leu	Pro	Val	Ser	Cys	Ala	Trp	435	440	445	
Glu	Ser	Gly	Met	Lys	Arg	His	Arg	Ala	Ala	Cys	Ala	Ser	Ala	Ser	Ile	450	455	460	
Asn	Val															465			

4206

<210> 4632

<211> 178

<212> PRT

<213> Homo sapiens

<400> 4632

Asn	Ser	Ala	Arg	Gly	His	Cys	Trp	Leu	Arg	Leu	Arg	Ser	Gly	Pro	Trp
1				5				10					15		

Ile	Ser	Ser	Lys	Met	Ala	Ala	Arg	Ser	Val	Ser	Gly	Ile	Thr	Arg	Arg
			20				25					30			

Val	Phe	Met	Trp	Thr	Val	Ser	Gly	Thr	Pro	Cys	Arg	Glu	Phe	Trp	Ser
		35					40					45			

Arg	Phe	Arg	Lys	Glu	Lys	Glu	Pro	Val	Val	Val	Glu	Thr	Val	Glu	Glu
	50					55					60				

Lys	Lys	Glu	Pro	Ile	Leu	Val	Cys	Pro	Pro	Leu	Arg	Ser	Arg	Ala	Tyr
65					70					75					80

Thr	Pro	Pro	Glu	Asp	Leu	Gln	Ser	Arg	Leu	Glu	Ser	Tyr	Val	Lys	Glu
				85					90					95	

Val	Phe	Gly	Ser	Ser	Leu	Pro	Ser	Asn	Trp	Gln	Asp	Ile	Ser	Leu	Glu
			100					105					110		

Asp	Ser	Arg	Leu	Lys	Phe	Asn	Leu	Leu	Ala	His	Leu	Ala	Asp	Asp	Leu
		115					120					125			

Gly	His	Val	Val	Pro	Asn	Ser	Arg	Leu	His	Gln	Met	Cys	Arg	Val	Arg
	130					135					140				

Asp	Val	Leu	Asp	Phe	Tyr	Asn	Val	Pro	Ile	Gln	Asp	Arg	Ser	Lys	Phe
145					150					155					160

Asp	Glu	Leu	Ser	Ala	Ser	Asn	Leu	Pro	Pro	Asn	Leu	Lys	Ile	Thr	Trp
				165				170						175	

Ser Tyr

<210> 4633

<211> 273

<212> PRT

<213> Homo sapiens

4207

<400> 4633

```

Arg Pro Ala Pro Ala Gly Ala Arg Pro Pro Leu Ile Pro Asp Pro Ala
 1              5              10              15

Val Gly Ala Met Ala Glu Ala Val Leu Arg Val Ala Arg Arg Gln Leu
      20              25              30

Ser Gln Arg Gly Gly Ser Gly Ala Pro Ile Leu Leu Arg Gln Met Phe
      35              40              45

Glu Pro Val Ser Cys Thr Phe Thr Tyr Leu Leu Gly Asp Arg Glu Ser
      50              55              60

Arg Glu Ala Val Leu Ile Asp Pro Val Leu Glu Thr Ala Pro Arg Asp
      65              70              75              80

Ala Gln Leu Ile Lys Glu Leu Gly Leu Arg Leu Leu Tyr Ala Val Asn
      85              90              95

Thr His Cys His Ala Asp His Ile Thr Gly Ser Gly Leu Leu Arg Ser
      100              105              110

Leu Leu Pro Gly Cys Gln Ser Val Ile Ser Arg Leu Ser Gly Ala Gln
      115              120              125

Ala Asp Leu His Ile Glu Asp Gly Asp Ser Ile Arg Phe Gly Arg Phe
      130              135              140

Ala Leu Glu Thr Arg Ala Ser Pro Gly His Thr Pro Gly Cys Val Thr
      145              150              155              160

Phe Val Leu Asn Asp His Ser Met Ala Phe Thr Gly Asp Ala Leu Leu
      165              170              175

Ile Arg Gly Cys Gly Arg Thr Asp Phe Gln Gln Gly Cys Ala Lys Thr
      180              185              190

Leu Tyr His Ser Val His Glu Lys Ile Phe Thr Leu Pro Gly Asp Cys
      195              200              205

Leu Ile Tyr Pro Ala His Asp Tyr His Gly Phe Thr Val Ser Thr Val
      210              215              220

Glu Glu Glu Arg Thr Leu Asn Pro Arg Leu Thr Leu Ser Cys Glu Glu
      225              230              235              240

Phe Val Lys Ile Met Gly Asn Leu Asn Leu Pro Lys Pro Gln Gln Ile
      245              250              255

Asp Phe Ala Val Pro Ala Asn Met Arg Cys Gly Val Gln Thr Pro Thr

```

4208

260

265

270

Ala

<210> 4634

<211> 311

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4634

Val	Thr	Ser	Glu	Gly	Val	Arg	Val	Arg	Ser	Ser	Arg	Gly	Arg	Ala	Xaa
1				5					10					15	

Gly	Val	Trp	Arg	Phe	Glu	Arg	Asp	Glu	Asp	Gly	Thr	Gly	Ala	Gly	Cys
			20					25					30		

Gly	Gln	Trp	Thr	Arg	Phe	Cys	Arg	Glu	Pro	Lys	Met	Ala	Val	Asn	Val
	35						40					45			

Tyr	Ser	Thr	Ser	Val	Thr	Ser	Asp	Asn	Leu	Ser	Arg	His	Asp	Met	Leu
	50					55					60				

Ala	Trp	Ile	Asn	Glu	Ser	Leu	Gln	Leu	Asn	Leu	Thr	Lys	Ile	Glu	Gln
65					70					75				80	

Leu	Cys	Ser	Gly	Ala	Ala	Tyr	Cys	Gln	Phe	Met	Asp	Met	Leu	Phe	Pro
				85					90					95	

Gly	Ser	Ile	Ala	Leu	Lys	Lys	Val	Lys	Phe	Gln	Ala	Lys	Leu	Glu	His
			100					105					110		

Glu	Tyr	Ile	Gln	Asn	Phe	Lys	Ile	Leu	Gln	Ala	Gly	Phe	Lys	Arg	Met
		115					120					125			

Gly	Val	Asp	Lys	Ile	Ile	Pro	Val	Asp	Lys	Leu	Val	Lys	Gly	Lys	Phe
	130					135					140				

Gln	Asp	Asn	Phe	Glu	Phe	Val	Gln	Trp	Phe	Lys	Lys	Phe	Phe	Asp	Ala
145					150					155					160

Asn	Tyr	Asp	Gly	Lys	Asp	Tyr	Asp	Pro	Val	Ala	Ala	Arg	Gln	Gly	Gln
				165					170					175	

4209

Glu Thr Ala Val Ala Pro Ser Leu Val Ala Pro Ala Leu Asn Lys Pro
 180 185 190
 Lys Lys Pro Leu Thr Ser Ser Ser Ala Ala Pro Gln Arg Pro Ile Ser
 195 200 205
 Thr Gln Arg Thr Ala Ala Ala Pro Lys Ala Gly Pro Gly Val Val Arg
 210 215 220
 Lys Asn Pro Gly Val Gly Asn Gly Asp Asp Glu Ala Ala Glu Leu Met
 225 230 235 240
 Gln Gln Val Asn Val Leu Lys Leu Thr Val Glu Asp Leu Glu Lys Glu
 245 250 255
 Arg Asp Phe Tyr Phe Gly Lys Leu Arg Asn Ile Glu Leu Ile Cys Gln
 260 265 270
 Glu Asn Glu Gly Glu Asn Asp Pro Val Leu Gln Arg Ile Val Asp Ile
 275 280 285
 Leu Tyr Ala Thr Asp Glu Gly Phe Val Ile Pro Asp Glu Gly Gly Pro
 290 295 300
 Gln Glu Glu Gln Glu Glu Tyr
 305 310

<210> 4635

<211> 367

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4635

Asn Ala Met Arg Xaa Ser Gly Asp Ala Phe Asp Ile Gln Arg Cys Tyr
 1 5 10 15
 Cys Asn Tyr Thr Thr Asp Val Val Ala Ser Val Ala Phe Gly Thr Pro
 20 25 30
 Val Asp Ser Trp Gln Ala Pro Glu Asp Pro Phe Val Lys His Cys Lys
 35 40 45
 Arg Phe Phe Glu Phe Cys Ile Pro Arg Pro Ile Leu Val Leu Leu Leu
 50 55 60

4210

Ser	Phe	Pro	Ser	Ile	Met	Val	Pro	Leu	Ala	Arg	Ile	Leu	Pro	Asn	Lys	65	70	75	80
Asn	Arg	Asp	Glu	Leu	Asn	Gly	Phe	Phe	Asn	Lys	Leu	Ile	Arg	Asn	Val	85	90	95	
Ile	Ala	Leu	Arg	Asp	Gln	Gln	Ala	Ala	Glu	Glu	Arg	Arg	Arg	Asp	Phe	100	105	110	
Leu	Gln	Met	Val	Leu	Asp	Ala	Arg	His	Ser	Ala	Ser	Pro	Met	Gly	Val	115	120	125	
Gln	Asp	Phe	Asp	Ile	Val	Arg	Asp	Val	Phe	Ser	Ser	Thr	Gly	Cys	Lys	130	135	140	
Pro	Asn	Pro	Ser	Arg	Gln	His	Gln	Pro	Ser	Pro	Met	Ala	Arg	Pro	Leu	145	150	155	160
Thr	Val	Asp	Glu	Ile	Val	Gly	Gln	Ala	Phe	Ile	Phe	Leu	Ile	Ala	Gly	165	170	175	
Tyr	Glu	Ile	Ile	Thr	Asn	Thr	Leu	Ser	Phe	Ala	Thr	Tyr	Leu	Leu	Ala	180	185	190	
Thr	Asn	Pro	Asp	Cys	Gln	Glu	Lys	Leu	Leu	Arg	Glu	Val	Asp	Val	Phe	195	200	205	
Lys	Glu	Lys	His	Met	Ala	Pro	Glu	Phe	Cys	Ser	Leu	Glu	Glu	Gly	Leu	210	215	220	
Pro	Tyr	Leu	Asp	Met	Val	Ile	Ala	Glu	Thr	Leu	Arg	Met	Tyr	Pro	Pro	225	230	235	240
Ala	Phe	Arg	Phe	Thr	Arg	Glu	Ala	Ala	Gln	Asp	Cys	Glu	Val	Leu	Gly	245	250	255	
Gln	Arg	Ile	Pro	Ala	Gly	Ala	Val	Leu	Glu	Met	Ala	Val	Gly	Ala	Leu	260	265	270	
His	His	Asp	Pro	Glu	His	Trp	Pro	Ser	Pro	Glu	Thr	Phe	Asn	Pro	Glu	275	280	285	
Arg	Phe	Thr	Ala	Glu	Ala	Arg	Gln	Gln	His	Arg	Pro	Phe	Thr	Tyr	Leu	290	295	300	
Pro	Phe	Gly	Ala	Gly	Pro	Arg	Ser	Cys	Leu	Gly	Val	Arg	Leu	Gly	Leu	305	310	315	320
Leu	Glu	Val	Lys	Leu	Thr	Leu	Leu	His	Val	Leu	His	Lys	Phe	Arg	Phe	325	330	335	

4211

Gln Ala Cys Pro Glu Thr Gln Val Pro Leu Gln Leu Glu Ser Lys Ser
 340 345 350

Ala Leu Gly Pro Lys Asn Gly Val Tyr Ile Lys Ile Val Ser Arg
 355 360 365

<210> 4636

<211> 198

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4636

Val Val Cys Gln Ser Arg Arg Arg Arg Arg Arg Xaa Arg Arg Arg Arg
 1 5 10 15

Ser Thr Val Ile Arg Pro Pro Arg Arg Gly Val Gly Gly Leu Arg Gly
 20 25 30

Thr Phe Phe Phe Phe Arg Leu Thr Ala Gly Gln Leu Arg Ser Met Ser
 35 40 45

Thr Pro Ala Arg Arg Arg Leu Met Arg Asp Phe Lys Arg Leu Gln Glu
 50 55 60

Asp Pro Pro Val Gly Val Ser Gly Ala Pro Ser Glu Asn Asn Ile Met
 65 70 75 80

Gln Trp Asn Ala Val Ile Phe Gly Pro Glu Gly Thr Pro Phe Glu Asp
 85 90 95

Gly Thr Phe Lys Leu Val Ile Glu Phe Ser Glu Glu Tyr Pro Asn Lys
 100 105 110

Pro Pro Thr Val Arg Phe Leu Ser Lys Met Phe His Pro Asn Val Tyr
 115 120 125

Ala Asp Gly Ser Ile Cys Leu Asp Ile Leu Gln Asn Arg Trp Ser Pro
 130 135 140

Thr Tyr Asp Val Ser Ser Ile Leu Thr Ser Ile Gln Ser Leu Leu Asp
 145 150 155 160

Glu Pro Asn Pro Asn Ser Pro Ala Asn Ser Gln Ala Ala Gln Leu Tyr

4212

	165		170		175
Gln Glu Asn Lys Arg Glu Tyr Glu Lys Arg Val Ser Ala Ile Val Glu					
	180		185		190
Gln Ser Trp Asn Asp Ser					
	195				

<210> 4637

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4637

Leu Phe Phe Met Val Ser Asn Met Tyr Asp Gln Cys Ser His Cys Phe
1 5 10 15

Lys Met Tyr Arg Val Asn Ile Asn Thr Ser Tyr Ala Xaa Lys Lys Lys
20 25 30

Lys Lys Gly Gly Arg Ser Xaa Gly Ser Lys Leu Thr Tyr Ala Cys Met
35 40 45

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
50 55 60

Val Val Leu Gln Arg
65

<210> 4638

<211> 77

<212> PRT

<213> Homo sapiens

<400> 4638

Leu Tyr Cys Phe Ser Ser Val Leu Glu Lys Lys Ile Asn Pro Ala Ile
1 5 10 15

4213

Thr Phe Trp Asn Cys Leu Asp Phe Ser Ala Val Gln Ala Ile Ser Asn
 20 25 30

Ile Val Leu Cys Arg Glu Cys His Cys Ser Phe Glu Cys Ile His Val
 35 40 45

Trp Val Leu Ile Ile Val Tyr Phe Leu Trp Gly Trp Lys Arg Lys Thr
 50 55 60

Ile Gln Ala Glu Lys Ser Ile Leu Lys Asp Ala Phe Leu
 65 70 75

<210> 4639

<211> 617

<212> PRT

<213> Homo sapiens

<400> 4639

Gly Thr Arg Glu Cys Pro Leu Cys Leu Val Arg Leu Pro Pro Glu Arg
 1 5 10 15

Ala Pro Arg Leu Leu Ser Cys Pro His Arg Ser Cys Arg Asp Cys Leu
 20 25 30

Arg His Tyr Leu Arg Leu Glu Ile Ser Glu Ser Arg Val Pro Ile Ser
 35 40 45

Cys Pro Glu Cys Ser Glu Arg Leu Asn Pro His Asp Ile Arg Leu Leu
 50 55 60

Leu Ala Asp Pro Pro Leu Met His Lys Tyr Glu Glu Phe Met Leu Arg
 65 70 75 80

Arg Tyr Leu Ala Ser Asp Pro Asp Cys Arg Trp Cys Pro Ala Pro Asp
 85 90 95

Cys Gly Tyr Ala Val Ile Ala Tyr Gly Cys Ala Ser Cys Pro Lys Leu
 100 105 110

Thr Cys Glu Arg Glu Gly Cys Gln Thr Glu Phe Cys Tyr His Cys Lys
 115 120 125

Gln Ile Trp His Pro Asn Gln Thr Cys Asp Met Ala Arg Gln Gln Arg
 130 135 140

Ala Gln Thr Leu Arg Val Arg Thr Lys His Thr Ser Gly Leu Ser Tyr
 145 150 155 160

4214

Gly	Gln	Glu	Ser	Gly	Pro	Asp	Asp	Ile	Lys	Pro	Cys	Pro	Arg	Cys	Ser	165	170	175
Ala	Tyr	Ile	Ile	Lys	Met	Asn	Asp	Gly	Ser	Cys	Asn	His	Met	Thr	Cys	180	185	190
Ala	Val	Cys	Gly	Cys	Glu	Phe	Cys	Trp	Leu	Cys	Met	Lys	Glu	Ile	Ser	195	200	205
Asp	Leu	His	Tyr	Leu	Ser	Pro	Ser	Gly	Cys	Thr	Phe	Trp	Gly	Lys	Lys	210	215	220
Pro	Trp	Ser	Arg	Lys	Lys	Lys	Ile	Leu	Trp	Gln	Leu	Gly	Thr	Leu	Ile	225	230	235
Gly	Ala	Pro	Val	Gly	Ile	Ser	Leu	Ile	Ala	Gly	Ile	Ala	Ile	Pro	Ala	245	250	255
Met	Val	Ile	Gly	Ile	Pro	Val	Tyr	Val	Gly	Arg	Lys	Ile	His	Ser	Arg	260	265	270
Tyr	Glu	Gly	Arg	Lys	Thr	Ser	Lys	His	Lys	Arg	Asn	Leu	Ala	Ile	Thr	275	280	285
Gly	Gly	Val	Thr	Leu	Ser	Val	Ile	Ala	Ser	Pro	Val	Ile	Ala	Ala	Val	290	295	300
Ser	Val	Gly	Ile	Gly	Val	Pro	Ile	Met	Leu	Ala	Tyr	Val	Tyr	Gly	Val	305	310	315
Val	Pro	Ile	Ser	Leu	Cys	Arg	Gly	Gly	Gly	Cys	Gly	Val	Ser	Thr	Ala	325	330	335
Asn	Gly	Lys	Gly	Val	Lys	Ile	Glu	Phe	Asp	Glu	Asp	Asp	Gly	Pro	Ile	340	345	350
Thr	Val	Ala	Asp	Ala	Trp	Arg	Ala	Leu	Lys	Asn	Pro	Ser	Ile	Gly	Glu	355	360	365
Ser	Ser	Ile	Glu	Gly	Leu	Thr	Ser	Val	Leu	Ser	Thr	Ser	Gly	Ser	Pro	370	375	380
Thr	Asp	Gly	Leu	Ser	Val	Met	Gln	Gly	Pro	Tyr	Ser	Glu	Thr	Ala	Ser	385	390	395
Phe	Ala	Ala	Leu	Ser	Gly	Gly	Thr	Leu	Ser	Gly	Gly	Ile	Leu	Ser	Ser	405	410	415
Gly	Lys	Gly	Lys	Tyr	Ser	Arg	Leu	Glu	Val	Gln	Ala	Asp	Val	Gln	Lys	420	425	430

4215

Glu Ile Phe Pro Lys Asp Thr Ala Ser Leu Gly Ala Ile Ser Asp Asn
 435 440 445
 Ala Ser Thr Arg Ala Met Ala Gly Ser Ile Ile Ser Ser Tyr Asn Pro
 450 455 460
 Gln Asp Arg Glu Cys Asn Asn Met Glu Ile Gln Val Asp Ile Glu Ala
 465 470 475 480
 Lys Pro Ser His Tyr Gln Leu Val Ser Gly Ser Ser Thr Glu Asp Ser
 485 490 495
 Leu His Val His Ala Gln Met Ala Glu Asn Glu Glu Glu Gly Ser Gly
 500 505 510
 Gly Gly Gly Ser Glu Glu Asp Pro Pro Cys Arg His Gln Ser Cys Glu
 515 520 525
 Gln Lys Asp Cys Leu Ala Ser Lys Pro Trp Asp Ile Ser Leu Ala Gln
 530 535 540
 Pro Glu Ser Ile Arg Ser Asp Leu Glu Ser Ser Asp Ala Gln Ser Asp
 545 550 555 560
 Asp Val Pro Asp Ile Thr Ser Asp Glu Cys Gly Ser Pro Arg Ser His
 565 570 575
 Thr Ala Ala Cys Pro Ser Thr Pro Arg Ala Gln Gly Ala Pro Ser Pro
 580 585 590
 Ser Ala His Met Asn Leu Ser Ala Leu Ala Glu Gly Gln Thr Val Leu
 595 600 605
 Lys Pro Glu Gly Gly Glu Ala Arg Val
 610 615

<210> 4640

<211> 155

<212> PRT

<213> Homo sapiens

<400> 4640

Arg Trp Arg Gly Ser Met Ser Gly Ser Met Ala Thr Ala Glu Ala Ser
 1 5 10 15
 Gly Ser Asp Gly Lys Gly Gln Glu Val Glu Thr Ser Val Thr Tyr Tyr
 20 25 30
 Arg Leu Glu Glu Val Ala Lys Arg Asn Ser Leu Lys Glu Leu Trp Leu

4216

35	40	45
Val Ile His Gly Arg Val Tyr Asp Val Thr Arg Phe Leu Asn Glu His		
50	55	60
Pro Gly Gly Glu Glu Val Leu Leu Glu Gln Ala Gly Val Asp Ala Ser		
65	70	75
Glu Ser Phe Glu Asp Val Gly His Ser Ser Asp Ala Arg Glu Met Leu		
85	90	95
Lys Gln Tyr Tyr Ile Gly Asp Ile His Pro Ser Asp Leu Lys Pro Glu		
100	105	110
Ser Gly Ser Lys Asp Pro Ser Lys Asn Asp Thr Cys Lys Ser Cys Trp		
115	120	125
Ala Tyr Trp Ile Leu Pro Ile Ile Gly Ala Val Leu Leu Gly Phe Leu		
130	135	140
Tyr Arg Tyr Tyr Thr Ser Glu Ser Lys Ser Ser		
145	150	155

<210> 4641

<211> 46

<212> PRT

<213> Homo sapiens

<400> 4641

Ser Gln Thr Pro His Tyr Ser Ser Leu Glu Leu Leu Ile Lys Glu Asn
1 5 10 15
Trp Lys Tyr Ile Cys Pro Cys Leu Asn Phe Ile Ala Leu Ile Cys Val
20 25 30
Ile Ser Leu Leu Thr Gly Arg Gly Thr Ser Phe Phe Pro Tyr
35 40 45

<210> 4642

<211> 348

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

4217

<220>

<221> SITE

<222> (335)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4642

Val	Glu	Trp	Asn	Arg	Leu	Phe	Ala	Gly	Leu	Leu	Glu	Glu	Gln	Arg	Gln
1				5					10					15	

Arg	Ser	Glu	Asp	Ser	Met	Tyr	Thr	Ala	Ile	Pro	Gln	Ser	Gly	Ser	Pro
			20					25					30		

Phe	Pro	Gly	Ser	Val	Gln	Asp	Pro	Gly	Leu	His	Val	Trp	Arg	Val	Glu
		35					40					45			

Lys	Leu	Lys	Pro	Val	Pro	Val	Ala	Gln	Glu	Asn	Gln	Gly	Val	Phe	Phe
	50					55					60				

Ser	Gly	Asp	Ser	Tyr	Leu	Val	Leu	His	Asn	Gly	Pro	Glu	Glu	Val	Ser
65					70					75					80

His	Leu	His	Leu	Asn	Thr	Leu	Leu	Gly	Glu	Arg	Pro	Val	Gln	His	Arg
				85					90					95	

Glu	Val	Xaa	Gly	Asn	Glu	Ser	Asp	Leu	Phe	Met	Ser	Tyr	Phe	Pro	Arg
			100					105					110		

Gly	Leu	Lys	Tyr	Gln	Glu	Gly	Gly	Val	Glu	Ser	Ala	Phe	His	Lys	Thr
		115					120					125			

Ser	Thr	Gly	Ala	Pro	Ala	Ala	Ile	Lys	Lys	Leu	Tyr	Gln	Val	Lys	Gly
	130					135					140				

Lys	Lys	Asn	Ile	Arg	Ala	Thr	Glu	Arg	Ala	Leu	Asn	Trp	Asp	Ser	Phe
145					150					155					160

Asn	Thr	Gly	Asp	Cys	Phe	Ile	Leu	Asp	Leu	Gly	Gln	Asn	Ile	Phe	Ala
				165					170					175	

Trp	Cys	Gly	Gly	Lys	Ser	Asn	Ile	Leu	Glu	Arg	Asn	Lys	Ala	Arg	Asp
		180						185					190		

Leu	Ala	Leu	Ala	Ile	Arg	Asp	Ser	Glu	Arg	Gln	Gly	Lys	Ala	Gln	Val
		195					200					205			

Glu	Ile	Val	Thr	Asp	Gly	Glu	Glu	Pro	Ala	Glu	Met	Ile	Gln	Val	Leu
	210					215					220				

Gly	Pro	Lys	Pro	Ala	Leu	Lys	Glu	Gly	Asn	Pro	Glu	Glu	Asp	Leu	Thr
225					230					235					240

4218

Ala Asp Lys Ala Asn Ala Gln Ala Ala Ala Leu Tyr Lys Val Ser Asp
245 250 255

Ala Thr Gly Gln Met Asn Leu Thr Lys Val Ala Asp Ser Ser Pro Phe
260 265 270

Ala Leu Glu Leu Leu Ile Ser Asp Asp Cys Phe Val Leu Asp Asn Gly
275 280 285

Leu Cys Gly Lys Ile Tyr Ile Trp Lys Gly Arg Lys Ala Asn Glu Lys
290 295 300

Glu Arg Gln Ala Ala Leu Gln Val Ala Glu Gly Phe Ile Ser Arg Met
305 310 315 320

Gln Tyr Ala Pro Asn Thr Gln Val Glu Ile Leu Pro Gln Gly Xaa Glu
325 330 335

Ser Pro Ile Phe Lys Gln Phe Phe Lys Asp Trp Lys
340 345

<210> 4643

<211> 389

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

 $\langle 222 \rangle \quad (376)$

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4643

Phe Gln Gly Lys Ile Asp Ala Ala Tyr Phe Glu Thr Ser Lys Tyr Leu
1 5 10 15

Leu Asp Val Leu Asn Lys Lys Tyr Ser Leu Leu Asp His Met Gln Ala
20 25 30

Met Arg Arg Tyr Leu Leu Leu Gly Gln Gly Asp Phe Ile Arg His Leu
35 40 45

Met Asp Leu Leu Lys Pro Glu Leu Val Arg Pro Ala Thr Thr Leu Tyr
50 55 60

Gln His Asn Leu Thr Gly Ile Leu Glu Thr Ala Val Arg Ala Thr Asn
65 70 75 80

Ala Gln Phe Asp Ser Pro Glu Ile Leu Arg Arg Leu Asp Val Arg Leu

4219

85										90					95				
Leu	Glu	Val	Ser	Pro	Gly	Asp	Thr	Gly	Trp	Asp	Val	Phe	Ser	Leu	Asp				
100								105				110							
Tyr	His	Val	Asp	Gly	Pro	Ile	Ala	Thr	Val	Phe	Thr	Arg	Glu	Cys	Met				
115								120				125							
Ser	His	Tyr	Leu	Arg	Val	Phe	Asn	Phe	Leu	Trp	Arg	Ala	Lys	Arg	Met				
130								135				140							
Glu	Tyr	Ile	Leu	Thr	Asp	Ile	Arg	Lys	Gly	His	Met	Cys	Asn	Ala	Lys				
145								150				155							
Leu	Leu	Arg	Asn	Met	Pro	Glu	Phe	Ser	Gly	Val	Leu	His	Gln	Cys	His				
				165								170							
Ile	Leu	Ala	Ser	Glu	Met	Val	His	Phe	Ile	His	Gln	Met	Gln	Tyr	Tyr				
				180								185							
Ile	Thr	Phe	Glu	Val	Leu	Glu	Cys	Ser	Trp	Asp	Glu	Leu	Trp	Asn	Lys				
195								200				205							
Val	Gln	Gln	Ala	Gln	Asp	Leu	Asp	His	Ile	Ile	Ala	Ala	His	Glu	Val				
210								215				220							
Phe	Leu	Asp	Thr	Ile	Ile	Ser	Arg	Cys	Leu	Leu	Asp	Ser	Asp	Ser	Arg				
225								230				235							
Ala	Leu	Leu	Asn	Gln	Leu	Arg	Ala	Val	Phe	Asp	Gln	Ile	Ile	Glu	Leu				
				245								250							
Gln	Asn	Ala	Gln	Asp	Ala	Ile	Tyr	Arg	Ala	Ala	Leu	Glu	Glu	Leu	Gln				
				260								265							
Arg	Arg	Leu	Gln	Phe	Glu	Glu	Lys	Lys	Lys	Gln	Arg	Glu	Ile	Glu	Gly				
275								280				285							
Gln	Trp	Gly	Val	Thr	Ala	Ala	Glu	Glu	Glu	Glu	Glu	Asn	Lys	Arg	Ile				
290								295				300							
Gly	Glu	Phe	Lys	Glu	Ser	Ile	Pro	Lys	Met	Cys	Ser	Gln	Leu	Arg	Ile				
305								310				315							
Leu	Thr	His	Phe	Tyr	Gln	Gly	Ile	Val	Gln	Gln	Phe	Leu	Val	Leu	Leu				
				325								330							
Thr	Thr	Ser	Ser	Asp	Glu	Ser	Leu	Arg	Phe	Leu	Ser	Phe	Arg	Leu	Asp				
				340								345							
Phe	Asn	Glu	His	Tyr	Lys	Ala	Arg	Glu	Pro	Arg	Leu	Arg	Cys	Val	Ser				

4220

355 360 365
 Gly Tyr Gln Gly Ala Ala Gln Xaa Pro His Val Lys Leu Ala Val Leu
 370 375 380

Pro Gly Ser Cys Gly
 385

<210> 4644

<211> 40

<212> PRT

<213> Homo sapiens

<400> 4644

Phe Cys Pro Ser Arg Leu Cys Phe Leu Pro Phe Leu Cys Ser Arg Ala
 1 5 10 15

Ala Ile Ser Arg Asp Pro Phe Tyr Glu Met Leu Ala Ala Arg Lys Lys
 20 25 30

Lys Val Ser Ser Thr Lys Arg His
 35 40

<210> 4645

<211> 353

<212> PRT

<213> Homo sapiens

<400> 4645

Arg Lys Gln Cys Gln Asp Ser Lys Asp Ser Asn His Leu Pro Lys Met
 1 5 10 15

Ser Leu Ser Ala Phe Thr Leu Phe Leu Ala Leu Ile Gly Gly Thr Ser
 20 25 30

Gly Gln Tyr Tyr Asp Tyr Asp Phe Pro Leu Ser Ile Tyr Gly Gln Ser
 35 40 45

Ser Pro Asn Cys Ala Pro Glu Cys Asn Cys Pro Glu Ser Tyr Pro Ser
 50 55 60

Ala Met Tyr Cys Asp Glu Leu Lys Leu Lys Ser Val Pro Met Val Pro
 65 70 75 80

Pro Gly Ile Lys Tyr Leu Tyr Leu Arg Asn Asn Gln Ile Asp His Ile
 85 90 95

4221

Asp	Glu	Lys	Ala	Phe	Glu	Asn	Val	Thr	Asp	Leu	Gln	Trp	Leu	Ile	Leu	100	105	110	
Asp	His	Asn	Leu	Leu	Glu	Asn	Ser	Lys	Ile	Lys	Gly	Arg	Val	Phe	Ser	115	120	125	
Lys	Leu	Lys	Gln	Leu	Lys	Lys	Leu	His	Ile	Asn	His	Asn	Asn	Leu	Thr	130	135	140	
Glu	Ser	Val	Gly	Pro	Leu	Pro	Lys	Ser	Leu	Glu	Asp	Leu	Gln	Leu	Thr	145	150	155	160
His	Asn	Lys	Ile	Thr	Lys	Leu	Gly	Ser	Phe	Glu	Gly	Leu	Val	Asn	Leu	165	170	175	
Thr	Phe	Ile	His	Leu	Gln	His	Asn	Arg	Leu	Lys	Glu	Asp	Ala	Val	Ser	180	185	190	
Ala	Ala	Phe	Lys	Gly	Leu	Lys	Ser	Leu	Glu	Tyr	Leu	Asp	Leu	Ser	Phe	195	200	205	
Asn	Gln	Ile	Ala	Arg	Leu	Pro	Ser	Gly	Leu	Pro	Val	Ser	Leu	Leu	Thr	210	215	220	
Leu	Tyr	Leu	Asp	Asn	Asn	Lys	Ile	Ser	Asn	Ile	Pro	Asp	Glu	Tyr	Phe	225	230	235	240
Lys	Arg	Phe	Asn	Ala	Leu	Gln	Tyr	Leu	Arg	Leu	Ser	His	Asn	Glu	Leu	245	250	255	
Ala	Asp	Ser	Gly	Ile	Pro	Gly	Asn	Ser	Phe	Asn	Val	Ser	Ser	Leu	Val	260	265	270	
Glu	Leu	Asp	Leu	Ser	Tyr	Asn	Lys	Leu	Lys	Asn	Ile	Pro	Thr	Val	Asn	275	280	285	
Glu	Asn	Leu	Glu	Asn	Tyr	Tyr	Leu	Glu	Val	Asn	Gln	Leu	Glu	Lys	Phe	290	295	300	
Asp	Ile	Lys	Ser	Phe	Cys	Lys	Ile	Leu	Gly	Pro	Leu	Ser	Tyr	Ser	Lys	305	310	315	320
Ile	Lys	His	Leu	Arg	Leu	Asp	Gly	Asn	Arg	Ile	Ser	Glu	Thr	Ser	Leu	325	330	335	
Pro	Pro	Asp	Met	Tyr	Glu	Cys	Leu	Arg	Val	Ala	Asn	Glu	Val	Thr	Leu	340	345	350	
Asn																			

4222

<210> 4646

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4646

Glu	Glu	Gln	Lys	Gly	Glu	Ile	Asn	Gly	Lys	Thr	Lys	Asn	Thr	Gln	Ile
1				5				10						15	

Cys	Gly	Phe	Gly	Xaa	Asn	Glu	Thr	Arg	Phe	Ile	Tyr	Leu	Lys	Lys	Cys
			20					25					30		

Trp	Cys	Ser	Asn	Thr	Lys	His	Tyr	Phe	His	Xaa	Glu	Lys	Ile	Thr	Tyr
		35					40					45			

Leu	Leu	Pro	Ser	Val	Leu
		50			

<210> 4647

<211> 38

<212> PRT

<213> Homo sapiens

<400> 4647

Asn	Met	Tyr	Ser	Gly	Arg	Leu	Gln	Trp	Leu	Thr	Pro	Val	Ile	Pro	Ala
1				5				10					15		

Leu	Trp	Gln	Ala	Glu	Met	Gly	Gly	Ser	Phe	Glu	Val	Arg	Ser	Leu	Arg
			20					25					30		

Pro	Ala	Trp	Pro	Thr	Trp
		35			

<210> 4648

<211> 515

4223

<212> PRT

<213> Homo sapiens

<400> 4648

```

Gly Glu Trp Pro Lys Ser Leu Arg Ile Pro Glu Gly Pro Ile Asp Gln
 1              5              10              15

Gly Pro Ala Ile Gly Arg Val Arg Val Leu Glu Glu Gln Leu Val Lys
          20              25              30

Ala Lys Glu Gln Ile Glu Asn Tyr Lys Lys Gln Thr Arg Asn Gly Leu
          35              40              45

Gly Lys Asp His Glu Ile Leu Arg Arg Arg Ile Glu Asn Gly Ala Lys
          50              55              60

Glu Leu Trp Phe Phe Leu Gln Ser Glu Leu Lys Lys Leu Lys Asn Leu
          65              70              75              80

Glu Gly Asn Glu Leu Gln Arg His Ala Asp Glu Phe Leu Leu Asp Leu
          85              90              95

Gly His His Glu Arg Ser Ile Met Thr Asp Leu Tyr Tyr Leu Ser Gln
          100              105              110

Thr Asp Gly Ala Gly Asp Trp Arg Glu Lys Glu Ala Lys Asp Leu Thr
          115              120              125

Glu Leu Val Gln Arg Arg Ile Thr Tyr Leu Gln Asn Pro Lys Asp Cys
          130              135              140

Ser Lys Ala Lys Lys Leu Val Cys Asn Ile Asn Lys Gly Cys Gly Tyr
          145              150              155              160

Gly Cys Gln Leu His His Val Val Tyr Cys Phe Met Ile Ala Tyr Gly
          165              170              175

Thr Gln Arg Thr Leu Ile Leu Glu Ser Gln Asn Trp Arg Tyr Ala Thr
          180              185              190

Gly Gly Trp Glu Thr Val Phe Arg Pro Val Ser Glu Thr Cys Thr Asp
          195              200              205

Arg Ser Gly Ile Ser Thr Gly His Trp Ser Gly Glu Val Lys Asp Lys
          210              215              220

Asn Val Gln Val Val Glu Leu Pro Ile Val Asp Ser Leu His Pro Arg
          225              230              235              240

Pro Pro Tyr Leu Pro Leu Ala Val Pro Glu Asp Leu Ala Asp Arg Leu
          245              250              255

```

4224

Val Arg Val His Gly Asp Pro Ala Val Trp Trp Val Ser Gln Phe Val
 260 265 270
 Lys Tyr Leu Ile Arg Pro Gln Pro Trp Leu Glu Lys Glu Ile Glu Glu
 275 280 285
 Ala Thr Lys Lys Leu Gly Phe Lys His Pro Val Ile Gly Val His Val
 290 295 300
 Arg Arg Thr Asp Lys Val Gly Thr Glu Ala Ala Phe His Pro Ile Glu
 305 310 315 320
 Glu Tyr Met Val His Val Glu Glu His Phe Gln Leu Leu Ala Arg Arg
 325 330 335
 Met Gln Val Asp Lys Lys Arg Val Tyr Leu Ala Thr Asp Asp Pro Ser
 340 345 350
 Leu Leu Lys Glu Ala Lys Thr Lys Tyr Pro Asn Tyr Glu Phe Ile Ser
 355 360 365
 Asp Asn Ser Ile Ser Trp Ser Ala Gly Leu His Asn Arg Tyr Thr Glu
 370 375 380
 Asn Ser Leu Arg Gly Val Ile Leu Asp Ile His Phe Leu Ser Gln Ala
 385 390 395 400
 Asp Phe Leu Val Cys Thr Phe Ser Ser Gln Val Cys Arg Val Ala Tyr
 405 410 415
 Glu Ile Met Gln Thr Leu His Pro Asp Ala Ser Ala Asn Phe His Ser
 420 425 430
 Leu Asp Asp Ile Tyr Tyr Phe Gly Gly Gln Asn Ala His Asn Gln Ile
 435 440 445
 Ala Ile Tyr Ala His Gln Pro Arg Thr Ala Asp Glu Ile Pro Met Glu
 450 455 460
 Pro Gly Asp Ile Ile Gly Val Ala Gly Asn His Trp Asp Gly Tyr Ser
 465 470 475 480
 Lys Gly Val Asn Arg Lys Leu Gly Arg Thr Gly Leu Tyr Pro Ser Tyr
 485 490 495
 Lys Val Arg Glu Lys Ile Glu Thr Val Lys Tyr Pro Thr Tyr Pro Glu
 500 505 510
 Ala Glu Lys
 515

4225

<210> 4649

<211> 47

<212> PRT

<213> Homo sapiens

<400> 4649

Ala	Ala	Gly	Val	Pro	Val	Phe	Asp	Phe	Ser	Val	Asn	Met	Leu	Phe	Val
1				5					10					15	
His	Ile	Ser	Thr	Trp	Trp	Arg	Pro	Tyr	Ser	Leu	Phe	His	Leu	Pro	Asn
			20					25					30		
Asn	Gly	Lys	Asn	Ile	Lys	Val	Asn	Gln	Cys	Ala	Leu	Gly	Ile	Gln	
		35					40					45			

<210> 4650

<211> 38

<212> PRT

<213> Homo sapiens

<400> 4650

Cys	Ile	Val	Ile	Ile	Tyr	Asp	Arg	Ser	Ser	His	Phe	Phe	Leu	Leu	Lys
1				5					10					15	
Lys	Ile	Thr	Leu	Ser	Pro	Val	Gly	Asn	Gly	Ile	Leu	Trp	Ala	Phe	Lys
			20					25					30		
Arg	Lys	Phe	Tyr	Glu	Thr										
				35											

<210> 4651

<211> 171

<212> PRT

<213> Homo sapiens

<400> 4651

Gly	Thr	Ser	Tyr	Gly	Leu	Pro	Arg	Tyr	Arg	Trp	Leu	Thr	His	Ala	Trp
1				5					10					15	
Asn	Phe	Phe	Gln	Arg	Glu	Phe	Lys	Cys	Cys	Gly	Val	Val	Tyr	Phe	Thr
			20					25					30		
Asp	Trp	Leu	Glu	Met	Thr	Glu	Met	Asp	Trp	Pro	Pro	Asp	Ser	Cys	Cys
			35				40					45			

4226

Val Arg Glu Phe Pro Gly Cys Ser Lys Gln Ala His Gln Glu Asp Leu
 50 55 60
 Ser Asp Leu Tyr Gln Glu Gly Cys Gly Lys Lys Met Tyr Ser Phe Leu
 65 70 75 80
 Arg Gly Thr Lys Gln Leu Gln Val Leu Arg Phe Leu Gly Ile Ser Ile
 85 90 95
 Gly Val Thr Gln Ile Leu Ala Met Ile Leu Thr Ile Thr Leu Leu Trp
 100 105 110
 Ala Leu Tyr Tyr Asp Arg Arg Glu Pro Gly Thr Asp Gln Met Met Ser
 115 120 125
 Leu Lys Asn Asp Asn Ser Gln His Leu Ser Cys Pro Ser Val Glu Leu
 130 135 140
 Leu Lys Pro Ser Leu Ser Arg Ile Phe Glu His Thr Ser Met Ala Asn
 145 150 155 160
 Ser Phe Asn Thr His Phe Glu Met Glu Glu Leu
 165 170

<210> 4652

<211> 200

<212> PRT

<213> Homo sapiens

<400> 4652

Ser Leu Gly Glu Leu Pro Thr Asp Pro Ser Ser Asp Glu Pro Val Phe
 1 5 10 15
 His Ile Ser His Ile Asp Arg Val Tyr Thr Leu Arg Thr Asp Asn Ile
 20 25 30
 Asn Glu Arg Thr Thr Trp Val Gln Lys Ile Lys Ala Ala Ser Glu Gln
 35 40 45
 Tyr Ile Asp Thr Glu Lys Lys Lys Arg Glu Lys Ala Tyr Gln Ala Arg
 50 55 60
 Ser Gln Lys Thr Ser Gly Ile Gly Arg Leu Met Val His Val Ile Glu
 65 70 75 80
 Ala Thr Glu Leu Lys Ala Cys Lys Pro Asn Gly Lys Ser Asn Pro Tyr
 85 90 95

4227

Cys Glu Ile Ser Met Gly Ser Gln Ser Tyr Thr Thr Arg Thr Ile Gln
 100 105 110
 Asp Thr Leu Asn Pro Lys Trp Asn Phe Asn Cys Gln Phe Phe Ile Lys
 115 120 125
 Asp Leu Tyr Gln Asp Val Leu Cys Leu Thr Leu Phe Asp Arg Asp Gln
 130 135 140
 Phe Ser Pro Asp Asp Phe Leu Gly Arg Thr Glu Ile Pro Val Ala Lys
 145 150 155 160
 Ile Arg Thr Glu Gln Glu Ser Lys Gly Pro Met Thr Arg Arg Leu Leu
 165 170 175
 Leu His Glu Val Pro Thr Gly Glu Val Trp Val Arg Phe Asp Leu Gln
 180 185 190
 Leu Phe Glu Gln Lys Thr Leu Leu
 195 200

<210> 4653

<211> 91

<212> PRT

<213> Homo sapiens

<400> 4653

Val Ser Pro Gly Gly Gln Gln Gly Leu His Phe Ser Glu Gly Leu Glu
 1 5 10 15
 Gly Leu Val Glu Leu Leu Gly Gln Arg Ser Arg Ser Arg Glu Asn Ile
 20 25 30
 Arg Pro Ser Asp Leu Ser Ser Ala Leu Arg Ala Leu Pro Glu Ser Ser
 35 40 45
 Ser Arg Gly Leu Gln Ser Leu Arg Lys Pro Ser Gln Arg Ala Ala Pro
 50 55 60
 Thr Ser Gln Ala Val Cys Thr Ser Pro Cys Tyr Ala Leu Leu Cys Asn
 65 70 75 80
 Ile Leu Gln Gln Ser Ala Val His Gly Val Cys
 85 90

<210> 4654

<211> 44

4228

<212> PRT

<213> Homo sapiens

<400> 4654

Ser Gln His Phe Ala Arg Pro Arg Arg Val Asp His Leu Arg Ser Gly
1 5 10 15

Val Arg Asp Gln Pro Asp Gln His Gly Glu Thr Pro Ser Leu Leu Lys
20 25 30

Ile Gln Lys Leu Ala Trp His Gly Gly Ala Cys Leu
35 40

<210> 4655

<211> 76

<212> PRT

<213> Homo sapiens

<400> 4655

Thr Leu Arg Val Arg Thr Gly Ser Tyr Ser Ser Leu Cys Ala Phe Leu
1 5 10 15

Met Leu Gln Arg Ile Tyr His Leu Met Glu Glu Asn Ile Cys Lys Leu
20 25 30

Ala Pro Tyr Gln Ala Pro Ser Thr Tyr Ser Thr His Leu Asn Phe Glu
35 40 45

Cys Arg Ile Phe Lys Leu Gln Pro His Ile Leu Arg Ser Arg Lys Asn
50 55 60

Leu Met Gly Ile Asn Leu His Pro Leu Ala Leu Pro
65 70 75

<210> 4656

<211> 284

<212> PRT

<213> Homo sapiens

<400> 4656

Ala His Ala Ser Thr His Ala Ser Gly Ser Val Ser Pro Cys Arg Gln
1 5 10 15

Leu His Phe Pro Leu Phe Leu Phe Pro Phe Pro Ser Arg Pro Arg Ala
20 25 30

Pro Pro Ser Leu Val Gly Trp Ser Arg Ser Pro Cys Ala Phe Ser Leu

4229

35	40	45
Leu Gly Ser Cys Val Arg Ala Cys Pro Ala Met Asn Glu Glu Tyr Asp		
50	55	60
Val Ile Val Leu Gly Thr Gly Leu Thr Glu Cys Ile Leu Ser Gly Ile		
65	70	75
Met Ser Val Asn Gly Lys Lys Val Leu His Met Asp Arg Asn Pro Tyr		
85	90	95
Tyr Gly Gly Glu Ser Ala Ser Ile Thr Pro Leu Glu Asp Leu Tyr Lys		
100	105	110
Arg Phe Lys Ile Pro Gly Ser Pro Pro Glu Ser Met Gly Arg Gly Arg		
115	120	125
Asp Trp Asn Val Asp Leu Ile Pro Lys Phe Leu Met Ala Asn Gly Gln		
130	135	140
Leu Val Lys Met Leu Leu Tyr Thr Glu Val Thr Arg Tyr Leu Asp Phe		
145	150	155
Lys Val Thr Glu Gly Ser Phe Val Tyr Lys Gly Gly Lys Ile Tyr Lys		
165	170	175
Val Pro Ser Thr Glu Ala Glu Ala Leu Ala Ser Ser Leu Met Gly Leu		
180	185	190
Phe Glu Lys Arg Arg Phe Arg Lys Phe Leu Val Tyr Val Ala Asn Phe		
195	200	205
Asp Glu Lys Asp Pro Arg Thr Phe Glu Gly Ile Asp Pro Lys Lys Thr		
210	215	220
Thr Met Arg Asp Val Tyr Lys Lys Phe Asp Leu Gly Gln Asp Val Ile		
225	230	235
Asp Phe Thr Gly His Ala Leu Ala Leu Tyr Arg Thr Asp Asp Tyr Leu		
245	250	255
Asp Gln Pro Cys Tyr Glu Thr Ile Asn Arg Ile Lys Leu Tyr Tyr Cys		
260	265	270
Gly Lys Thr Thr Val Leu Ile Lys Asp Leu His Ser		
275	280	

<210> 4657

<211> 125

4230

<212> PRT

<213> Homo sapiens

<400> 4657

```

Asp Gly Val Leu Leu Leu Pro Arg Leu Glu Trp Ser Ala Trp Cys Asp
 1             5             10             15

Leu Gly Ser Leu Gln Thr Pro Pro Pro Gly Phe Lys Arg Phe Ser Trp
      20             25             30

Pro Ser Leu Leu Ser Ser Trp Asp Tyr Arg Cys Val Pro Pro Cys Pro
      35             40             45

Ala Asn Phe Cys Val Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Pro
      50             55             60

Ala Gly Leu Glu Leu Leu Thr Ser Gly Tyr Met Pro Thr Ser Thr Ser
      65             70             75             80

Gln Ser Ala Gly Ile Thr Gly Met Ser His Cys Ala Gln Pro Gly Ile
      85             90             95

Asp Asn Leu Tyr Ser Asp Asn Leu Leu Trp Leu Phe Asn Ile Pro Gln
      100            105            110

Gly Ala Leu Lys Ser Lys His Ser Arg Val Cys Ser Phe
      115            120            125

```

<210> 4658

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4658

```

Trp Arg Gly Val Gly Xaa Ala Arg Lys Lys Glu Asn Ser Pro Leu Gly
 1             5             10             15

Lys Lys Glu Glu Glu His Trp Ile Leu Thr Phe Trp Ile Leu Thr Leu
      20             25             30

Gly Cys Lys Thr Tyr Leu Pro Leu Ser Arg Leu Pro Ser Pro Ser Thr
      35             40             45

Leu Asn Val Leu Leu Ser Phe Ser Val Ser Ala Pro Ser Ser Pro Phe

```


4232

<210> 4661

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4661

Arg	Arg	Glu	Gly	Cys	Arg	Arg	Pro	Arg	Gly	Ser	Arg	Ala	Gly	Gly	Ala
1				5					10					15	

Ala	Ala	Ala	Ala	Met	Gln	Glu	Ile	Ile	Ala	Ser	Val	Asp	His	Ile	Lys
			20					25					30		

Phe	Asp	Leu	Glu	Ile	Ala	Val	Glu	Gln	Gln	Leu	Gly	Ala	Gln	Pro	Leu
		35						40				45			

Pro	Xaa	Gln	Thr	Gln	Pro	Pro	Ala	Lys	Xaa	Xaa	Thr	Pro	Gln	Val	Ile
	50					55					60				

Gly	Val	Met	Gln	Ser	Gln	Asn	Ser	Ser	Ala	Gly	Asn	Arg	Gly	Pro	Arg
65						70				75					80

Pro	Leu	Glu	Gln	Val	Thr	Cys	Tyr	Lys	Cys	Gly	Glu	Lys	Gly	His	Tyr
				85					90					95	

Ala	Asn	Arg	Cys	Thr	Lys	Gly	His	Leu	Ala	Phe	Leu	Ser	Gly	Gln	
			100					105						110	

<210> 4662

<211> 69

<212> PRT

<213> Homo sapiens

4233

<400> 4662

Ser His Phe Val Cys Cys Val Lys Gln Lys Ala Leu Met Lys Lys Gln
 1 5 10 15

Lys Val Met Tyr Val Tyr Glu Lys Ile Asn Cys Thr Ile Ser Phe Gln
 20 25 30

Tyr Val Leu Leu Tyr Ile Leu Val Leu Phe Thr Phe Ser Ser Leu Leu
 35 40 45

Arg Gly Cys Glu Leu Tyr Ser Phe Gln Leu Val Thr His Ile Arg Glu
 50 55 60

Glu Ile Arg Glu Tyr
 65

<210> 4663

<211> 212

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4663

Gly Ala Val Ala Ala Arg Ala Ile Arg Leu Thr His Leu Ala Pro
 1 5 10 15

Val Pro Gln Asp Gln Ser Gly Ala Gly Arg Glu Gly Glu Glu Ala Arg
 20 25 30

Ala Arg Arg Ala Arg Val Arg Ile Gly Ala Gly Arg Ser Arg Asp Leu
 35 40 45

Gly Ser Gly Arg Gly Gly Cys Glu Arg Ala Ala Asn Arg Ala Gly Gly
 50 55 60

Gly Arg Ala His His Gly Gly Glu Thr Arg Asp Gln Leu Thr Val Tyr
 65 70 75 80

Leu Gly Lys Arg Asp Phe Val Asp His Leu Asp Lys Val Asp Pro Val
 85 90 95

4234

Asp Gly Val Val Leu Val Asp Pro Asp Tyr Leu Lys Asp Arg Lys Val
 100 105 110
 Phe Val Thr Leu Thr Cys Ala Phe Arg Tyr Gly Arg Glu Asp Leu Asp
 115 120 125
 Val Leu Gly Leu Ser Phe Arg Lys Asp Leu Phe Ile Ala Thr Tyr Gln
 130 135 140
 Ala Phe Pro Pro Val Pro Asn Pro Pro Arg Pro Pro Thr Arg Leu Gln
 145 150 155 160
 Asp Arg Leu Leu Arg Lys Leu Gly Gln His Ala Xaa Pro Phe Phe Phe
 165 170 175
 Thr Ile Pro Gln Asn Leu Pro Cys Ser Val Thr Leu Gln Pro Gly Pro
 180 185 190
 Glu Asp Thr Gly Lys Ala Cys Gly Val Asp Phe Glu Xaa Glu Pro Ser
 195 200 205
 Val Leu Asn His
 210

<210> 4664
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 4664
 Ala Ala Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu
 1 5 10 15
 Glu Asp Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser
 20 25 30
 Val Ser Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser
 35 40 45
 Arg Val Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu
 50 55 60
 Glu Ile Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg
 65 70 75 80
 Lys Leu Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met
 85 90 95

4235

Gly Leu Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly
 100 105 110

Pro Gln Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Arg Arg Arg
 115 120 125

Leu Ser Ser Gln His Arg Cys Asn Lys
 130 135

<210> 4665

<211> 197

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4665

Val Ile Cys Met Trp Gln Gly Cys Ala Val Glu Arg Pro Val Gly Arg
 1 5 10 15

Met Thr Ser Gln Thr Pro Leu Pro Gln Ser Pro Arg Pro Arg Arg Pro
 20 25 30

Thr Met Ser Thr Val Val Glu Leu Asn Val Gly Gly Glu Phe His Thr
 35 40 45

Thr Thr Leu Gly Thr Leu Arg Lys Phe Pro Gly Ser Lys Leu Ala Glu
 50 55 60

Met Phe Ser Ser Leu Ala Lys Ala Ser Thr Asp Ala Glu Gly Arg Phe
 65 70 75 80

Phe Ile Asp Arg Pro Ser Thr Tyr Phe Arg Pro Ile Leu Asp Tyr Leu
 85 90 95

Arg Thr Gly Gln Val Pro Thr Gln His Ile Pro Glu Val Tyr Arg Glu
 100 105 110

Ala Gln Phe Tyr Glu Ile Lys Pro Leu Val Lys Leu Leu Glu Asp Met
 115 120 125

4236

Pro Gln Ile Phe Gly Glu Gln Val Ser Arg Lys Gln Phe Leu Leu Gln
 130 135 140

Val Pro Gly Tyr Ser Glu Asn Leu Glu Leu Met Val Arg Leu Ala Arg
 145 150 155 160

Ala Glu Ala Ile Thr Ala Arg Xaa Ser Ser Val Xaa Val Cys Leu Val
 165 170 175

Glu Thr Glu Glu Gln Asp Ala Tyr Tyr Ser Glu Val Leu Cys Phe Ser
 180 185 190

Cys Arg Ile Arg Arg
 195

<210> 4666

<211> 293

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4666

Gln Ser Lys Met Gly Ala Tyr His Thr Ile Glu Leu Glu Pro Asn Arg
 1 5 10 15

Gln Phe Thr Leu Ala Lys Lys Gln Trp Asp Ser Val Val Leu Glu Arg
 20 25 30

Ile Glu Gln Ala Cys Xaa Pro Ala Trp Ser Ala Asp Val Ala Ala Val
 35 40 45

Val Met Gln Glu Gly Leu Ala His Ile Cys Leu Val Thr Pro Ser Met
 50 55 60

Thr Leu Thr Arg Ala Lys Val Glu Val Asn Ile Pro Arg Lys Arg Lys
 65 70 75 80

Gly Asn Cys Ser Gln His Asp Arg Ala Leu Glu Arg Phe Tyr Glu Gln
 85 90 95

Val Val Gln Ala Ile Gln Arg His Ile His Phe Asp Val Val Lys Cys
 100 105 110

Ile Leu Val Ala Ser Pro Gly Phe Val Arg Glu Gln Phe Cys Asp Tyr
 115 120 125

4237

Met Phe Gln Gln Ala Val Lys Thr Asp Asn Lys Leu Leu Leu Glu Asn
 130 135 140
 Arg Ser Lys Phe Leu Gln Val His Ala Ser Ser Gly His Lys Tyr Ser
 145 150 155 160
 Leu Lys Glu Ala Leu Cys Asp Pro Thr Val Ala Ser Arg Leu Ser Asp
 165 170 175
 Thr Lys Ala Ala Gly Glu Val Lys Ala Leu Asp Asp Phe Tyr Lys Met
 180 185 190
 Leu Gln His Glu Pro Asp Arg Ala Phe Tyr Gly Leu Lys Gln Val Glu
 195 200 205
 Lys Ala Asn Glu Ala Met Ala Ile Asp Thr Leu Leu Ile Ser Asp Glu
 210 215 220
 Leu Phe Arg His Gln Asp Val Ala Thr Arg Ser Arg Tyr Val Arg Leu
 225 230 235 240
 Val Asp Ser Val Lys Glu Asn Ala Gly Thr Val Arg Ile Phe Ser Ser
 245 250 255
 Leu His Val Ser Gly Glu Gln Leu Ser Gln Leu Thr Gly Val Ala Ala
 260 265 270
 Ile Leu Arg Phe Pro Val Pro Glu Leu Ser Asp Gln Glu Gly Asp Ser
 275 280 285
 Ser Ser Glu Glu Asp
 290

<210> 4667

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

4238

<400> 4667

Pro Ala Ser Thr Ala Trp Val Pro Pro Pro Gly Xaa Asp Pro Gly Pro
 1 5 10 15

Arg Ser Leu Ala Pro Gly Trp Asp Pro Ala Pro Gly Ser Tyr Xaa Arg
 20 25 30

Gly Ser Gln Leu Arg Arg Pro Ala Gln Pro Asp Ser Leu Lys Ala Gln
 35 40 45

Arg Ala Gly Ser Arg Pro Pro
 50 55

<210> 4668

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4668

Val Asp Pro Arg Val Xaa Pro Arg Ser Gly Gly Glu Lys Pro Gly Gly
 1 5 10 15

Leu Gly Ala Pro Ala Gly Ile Gly Ser Arg Leu Gly Cys Glu Arg Phe
 20 25 30

Ser Arg Ser Arg Glu Ile Leu Gln Ala Ile Thr Met Ser Thr Asp Thr
 35 40 45

Gly Val Ser Leu Pro Ser Tyr Glu Glu Asp Gln Gly Ser Lys Leu Ile
 50 55 60

Arg Lys Ala Lys Glu Ala Pro Phe Val Pro Val Gly Ile Ala Gly Phe
 65 70 75 80

Ala Ala Ile Val Ala Tyr Gly Leu Tyr Lys Leu Lys Ser Arg Gly Asn
 85 90 95

Thr Lys Met Ser Ile His Leu Ile His Met Arg Val Ala Ala Gln Gly
 100 105 110

Phe Val Val Gly Ala Met Thr Val Gly Met Gly Tyr Ser Met Tyr Arg
 115 120 125

Glu Phe Trp Ala Lys Pro Lys Pro

4239

130

135

<210> 4669

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4669

Thr	Ala	Ser	Trp	Ser	Pro	Ala	Pro	Val	Pro	Ser	Ser	Leu	Glu	Arg	Leu
1				5					10					15	

Phe	Ser	Pro	Asp	Gly	Thr	Phe	Pro	Ser	Arg	Arg	Phe	Leu	Gly	Leu	Trp
			20					25					30		

Leu	Phe	Phe	Ser	Cys	Ala	Arg	Leu	Ile	Gly	His	Leu	Leu	Ala	Ser	Ile
		35					40					45			

Ser	Val	Val	Leu	Leu	Pro	His	Phe	Leu	Phe	Cys	Cys	Phe	Ser	Val	Leu
	50					55					60				

Ser	Lys	Tyr	Leu	Leu	Cys	Ser	Trp	Leu	Pro	Phe	Xaa	Arg	Gln	Val	Phe
65					70					75					80

Ser	Phe	Pro	Leu	Ala	Leu	Leu	Leu	Ile	Trp	Leu	Leu	Pro	Thr	Lys	Ala
				85					90					95	

Cys	Ser	Val	Arg	Ile	Ser	Trp	Phe	Ser	Thr	Cys	Gln	Asn	Leu	Leu	Gln
			100					105					110		

Pro	Gln	Phe	Leu	Gly	Leu	Asn	Leu	Tyr	Val
			115				120		

<210> 4670

<211> 439

<212> PRT

<213> Homo sapiens

<400> 4670

Gly	Gly	Arg	Gly	Gln	Glu	Pro	Gln	Met	Arg	Ala	Phe	Leu	Ala	Cys	Met
1				5				10						15	

Arg	Ser	Asp	Thr	Pro	Ala	Met	Leu	Asn	Pro	Ala	Asn	Val	Pro	Thr	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4240

			20						25						30		
Leu	Met	Val	Leu	Cys	Cys	Val	Leu	Arg	Tyr	Met	Val	Gln	Trp	Pro	Gly		
35						40						45					
Ala	Arg	Ile	Leu	Arg	Arg	Gln	Glu	Leu	Asp	Ala	Phe	Leu	Ala	Gln	Ala		
50						55						60					
Leu	Ser	Pro	Lys	Leu	Tyr	Glu	Pro	Asp	Gln	Leu	Gln	Glu	Leu	Lys	Ile		
65						70						75			80		
Glu	Asn	Leu	Asp	Pro	Arg	Gly	Ile	Gln	Leu	Ser	Ala	Leu	Phe	Met	Ser		
			85						90						95		
Gly	Val	Asp	Met	Ala	Leu	Phe	Ala	Asn	Asp	Ala	Cys	Gly	Gln	Pro	Ile		
			100						105						110		
Pro	Trp	Glu	His	Cys	Cys	Pro	Trp	Met	Tyr	Phe	Asp	Gly	Lys	Leu	Phe		
115						120						125					
Gln	Ser	Lys	Leu	Leu	Lys	Ala	Ser	Arg	Glu	Lys	Thr	Pro	Leu	Ile	Asp		
130						135						140					
Leu	Cys	Asp	Gly	Gln	Ala	Asp	Gln	Ala	Ala	Lys	Val	Glu	Lys	Met	Arg		
145						150						155			160		
Gln	Ser	Val	Leu	Glu	Gly	Leu	Ser	Phe	Ser	Arg	Gln	Ser	His	Thr	Leu		
			165						170						175		
Pro	Phe	Pro	Pro	Pro	Pro	Ala	Leu	Pro	Phe	Tyr	Pro	Ala	Ser	Ala	Tyr		
180						185						190					
Pro	Arg	His	Phe	Gly	Pro	Val	Pro	Pro	Ser	Gln	Gly	Arg	Gly	Arg	Gly		
195						200						205					
Phe	Ala	Gly	Val	Cys	Gly	Phe	Gly	Gly	Pro	Tyr	Gly	Glu	Thr	Val	Ala		
210						215						220					
Thr	Gly	Pro	Tyr	Arg	Ala	Phe	Arg	Val	Ala	Ala	Ala	Ser	Gly	His	Cys		
225						230						235			240		
Gly	Ala	Phe	Ser	Gly	Ser	Asp	Ser	Ser	Arg	Thr	Ser	Lys	Ser	Gln	Gly		
			245						250						255		
Gly	Val	Gln	Pro	Ile	Pro	Ser	Gln	Gly	Gly	Lys	Leu	Glu	Ile	Ala	Gly		
			260						265						270		
Thr	Val	Val	Gly	His	Trp	Ala	Gly	Ser	Arg	Arg	Gly	Arg	Gly	Gly	Arg		
275						280						285					
Gly	Pro	Phe	Pro	Leu	Gln	Val	Val	Ser	Val	Gly	Gly	Pro	Ala	Arg	Gly		

4241

290 295 300
 Arg Pro Arg Gly Val Ile Ser Thr Pro Val Ile Arg Thr Phe Gly Arg
 305 310 315 320
 Gly Gly Arg Tyr Tyr Gly Arg Gly Tyr Lys Asn Gln Ala Ala Ile Gln
 325 330 335
 Gly Arg Pro Pro Tyr Ala Ala Ser Ala Glu Glu Val Ala Lys Glu Leu
 340 345 350
 Lys Ser Lys Ser Gly Glu Ser Lys Ser Ser Ala Met Ser Ser Asp Gly
 355 360 365
 Ser Leu Ala Glu Asn Gly Val Met Ala Glu Glu Lys Pro Ala Pro Gln
 370 375 380
 Met Asn Gly Ser Thr Gly Asp Ala Arg Ala Pro Ser His Ser Glu Ser
 385 390 395 400
 Ala Leu Asn Asn Asp Ser Lys Thr Cys Asn Thr Asn Pro His Leu Asn
 405 410 415
 Ala Leu Ser Thr Asp Ser Ala Cys Arg Arg Glu Ala Ala Leu Glu Ala
 420 425 430
 Ala Val Leu Asn Lys Glu Glu
 435

<210> 4671

<211> 102

<212> PRT

<213> Homo sapiens

<400> 4671

Asn Arg Lys Val Cys Arg Lys Ile Ala Ala His Gly Leu Cys Arg Lys
 1 5 10 15
 Glu Ser Leu Gln Asn Leu Leu His Ser Ser Arg Lys Leu Ser Leu Gln
 20 25 30
 Val Leu Asn Phe Val His Ser Phe Gln Glu Gly Ala Ser Ile Leu Asp
 35 40 45
 Ile His Thr Glu Pro Ser Phe Ser Ser Leu Leu Ser Gln Ser Ser Tyr
 50 55 60
 Ala Asp Met Gly Val Pro Leu Pro Ala Lys Asn Leu Ile Phe Lys Asp
 65 70 75 80

4242

Gly Val Leu Ser Glu Trp Ser Gly Arg Ser Pro Ser Ser Leu Leu Ile
85 90 95

Ala Asn Leu His Leu Gln
100

<210> 4672

<211> 631

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4243

<222> (341)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (357)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4672

Lys	Asp	Glu	Glu	Glu	Glu	Pro	Pro	Ser	Met	Thr	Gln	Leu	Leu	Arg	Arg
1				5					10					15	

Xaa	Xaa	Leu	Ser	Cys	His	Arg	Pro	Gly	Met	Trp	Ser	Val	His	Cys	Arg
			20					25					30		

Ser	Lys	Glu	Xaa	Xaa	Asp	Met	Met	Gly	Arg	Asn	Gln	Thr	Ala	Val	Arg
		35					40					45			

Glu	Glu	Met	Xaa	Leu	Leu	Ala	Asn	Tyr	Leu	Asp	Ser	Met	Tyr	Xaa	Met
	50					55					60				

Leu	Asn	Ile	Arg	Ile	Val	Leu	Val	Gly	Leu	Glu	Ile	Trp	Thr	Asn	Gly
65					70					75					80

Asn	Leu	Ile	Asn	Ile	Val	Gly	Gly	Ala	Gly	Asp	Val	Leu	Gly	Asn	Xaa
				85					90					95	

Val	Gln	Trp	Arg	Glu	Lys	Phe	Leu	Ile	Thr	Arg	Arg	Arg	His	Asp	Ser
			100					105					110		

Ala	Gln	Leu	Val	Leu	Lys	Lys	Gly	Phe	Gly	Gly	Thr	Ala	Gly	Met	Ala
		115					120					125			

Phe	Val	Gly	Thr	Val	Cys	Ser	Arg	Ser	His	Ala	Gly	Gly	Ile	Asn	Val
130						135					140				

Phe	Gly	Gln	Ile	Thr	Val	Glu	Thr	Phe	Ala	Ser	Ile	Val	Ala	His	Glu
145					150					155					160

Leu	Gly	His	Asn	Leu	Gly	Met	Asn	His	Asp	Asp	Gly	Arg	Asp	Cys	Ser
				165					170					175	

Cys	Gly	Ala	Lys	Ser	Cys	Ile	Met	Asn	Ser	Gly	Ala	Ser	Gly	Ser	Arg
			180					185					190		

Asn	Phe	Ser	Ser	Cys	Ser	Ala	Glu	Asp	Phe	Glu	Lys	Leu	Thr	Leu	Asn
		195					200					205			

Lys	Gly	Gly	Asn	Cys	Leu	Leu	Asn	Ile	Pro	Lys	Pro	Asp	Glu	Ala	Tyr
	210					215					220				

4244

Ser	Ala	Pro	Ser	Cys	Gly	Asn	Lys	Leu	Val	Asp	Ala	Gly	Glu	Glu	Cys	225	230	235	240
Asp	Cys	Gly	Thr	Pro	Lys	Glu	Cys	Glu	Leu	Asp	Pro	Cys	Cys	Glu	Gly	245	250	255	
Ser	Thr	Cys	Lys	Leu	Lys	Ser	Phe	Ala	Glu	Cys	Ala	Tyr	Gly	Asp	Cys	260	265	270	
Cys	Lys	Asp	Cys	Arg	Phe	Leu	Pro	Gly	Gly	Thr	Leu	Cys	Arg	Gly	Lys	275	280	285	
Thr	Ser	Glu	Cys	Asp	Val	Pro	Glu	Tyr	Cys	Asn	Gly	Ser	Ser	Gln	Phe	290	295	300	
Cys	Gln	Pro	Asp	Val	Phe	Ile	Gln	Asn	Gly	Tyr	Pro	Cys	Gln	Asn	Asn	305	310	315	320
Lys	Ala	Tyr	Cys	Tyr	Asn	Gly	Met	Cys	Gln	Tyr	Tyr	Asp	Ala	Gln	Cys	325	330	335	
Gln	Val	Ile	Phe	Xaa	Ser	Lys	Ala	Lys	Ala	Ala	Pro	Lys	Asp	Cys	Phe	340	345	350	
Ile	Glu	Val	Asn	Xaa	Lys	Gly	Asp	Arg	Phe	Gly	Asn	Cys	Gly	Phe	Ser	355	360	365	
Gly	Asn	Glu	Tyr	Lys	Lys	Cys	Ala	Thr	Gly	Asn	Ala	Leu	Cys	Gly	Lys	370	375	380	
Leu	Gln	Cys	Glu	Asn	Val	Gln	Glu	Ile	Pro	Val	Phe	Gly	Ile	Val	Pro	385	390	395	400
Ala	Ile	Ile	Gln	Thr	Pro	Ser	Arg	Gly	Thr	Lys	Cys	Trp	Gly	Val	Asp	405	410	415	
Phe	Gln	Leu	Gly	Ser	Asp	Val	Pro	Asp	Pro	Gly	Met	Val	Asn	Glu	Gly	420	425	430	
Thr	Lys	Cys	Gly	Ala	Gly	Lys	Ile	Cys	Arg	Asn	Phe	Gln	Cys	Val	Asp	435	440	445	
Ala	Ser	Val	Leu	Asn	Tyr	Asp	Cys	Asp	Val	Gln	Lys	Lys	Cys	His	Gly	450	455	460	
His	Gly	Val	Cys	Asn	Ser	Asn	Lys	Asn	Cys	His	Cys	Glu	Asn	Gly	Trp	465	470	475	480
Ala	Pro	Pro	Asn	Cys	Glu	Thr	Lys	Gly	Tyr	Gly	Gly	Ser	Val	Asp	Ser	485	490	495	

4245

Gly Pro Thr Tyr Asn Glu Met Asn Thr Ala Leu Arg Asp Gly Leu Leu
 500 505 510

Val Phe Phe Phe Leu Ile Val Pro Leu Ile Val Cys Ala Ile Phe Ile
 515 520 525

Phe Ile Lys Arg Asp Gln Leu Trp Arg Ser Tyr Phe Arg Lys Lys Arg
 530 535 540

Ser Gln Thr Tyr Glu Ser Asp Gly Lys Asn Gln Ala Asn Pro Ser Arg
 545 550 555 560

Gln Pro Gly Ser Val Pro Arg His Val Ser Pro Val Thr Pro Pro Arg
 565 570 575

Glu Val Pro Ile Tyr Ala Asn Arg Phe Ala Val Pro Thr Tyr Ala Ala
 580 585 590

Lys Gln Pro Gln Gln Phe Pro Ser Arg Pro Pro Pro Pro Gln Pro Lys
 595 600 605

Val Ser Ser Gln Gly Asn Leu Ile Pro Ala Arg Pro Ala Pro Ala Pro
 610 615 620

Pro Leu Tyr Ser Ser Leu Thr
 625 630

<210> 4673

<211> 98

<212> PRT

<213> Homo sapiens

<400> 4673

Met Ile Ala Thr Tyr Cys Phe Cys Cys Cys Phe Phe Ser Asp Ser Phe
 1 5 10 15

Leu Ser Leu Asp Leu Phe Val Leu Ser Cys Gly Glu Trp Cys Phe Ser
 20 25 30

Tyr Cys Val Ala Ala Arg Ile Arg Ile Gln Phe Leu Phe Leu Leu Pro
 35 40 45

Tyr Ser Tyr Cys Val Ala Thr Arg Ile Arg Ile Gln Phe Leu Phe Ile
 50 55 60

Leu Pro Cys Ser Glu Gly Ser Leu Ile Ser Thr Lys Lys Leu Leu Glu
 65 70 75 80

Ala Glu Lys Val Asn Val Ile Val His Ser Ala Phe Lys Lys Leu Phe

4246

85

90

95

Gln Leu

<210> 4674

<211> 35

<212> PRT

<213> Homo sapiens

<400> 4674

Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu	Val
1				5					10					15	

Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg	Gly	Val	Met	Asn	Arg	Asn
			20					25					30		

Phe	Gln	Met
		35

<210> 4675

<211> 487

<212> PRT

<213> Homo sapiens

<400> 4675

Phe	Ser	Glu	Val	Gln	Ile	Ala	Leu	Asn	Glu	Ala	Lys	Leu	Ser	Glu	Glu
1				5					10					15	

Lys	Val	Lys	Ser	Glu	Cys	His	Arg	Val	Gln	Glu	Glu	Asn	Ala	Arg	Leu
			20					25					30		

Lys	Lys	Lys	Lys	Glu	Gln	Leu	Gln	Gln	Glu	Ile	Glu	Asp	Trp	Ser	Lys
			35				40					45			

Leu	His	Ala	Glu	Leu	Ser	Glu	Gln	Ile	Lys	Ser	Phe	Glu	Lys	Ser	Gln
	50					55					60				

Lys	Asp	Leu	Glu	Val	Ala	Leu	Thr	His	Lys	Asp	Asp	Asn	Ile	Asn	Ala
65					70					75					80

Leu	Thr	Asn	Cys	Ile	Thr	Gln	Leu	Asn	Leu	Leu	Glu	Cys	Glu	Ser	Glu
				85					90					95	

Ser	Glu	Gly	Gln	Asn	Lys	Gly	Gly	Asn	Asp	Ser	Asp	Glu	Leu	Ala	Asn
			100					105					110		

4247

Gly	Glu	Val	Gly	Gly	Asp	Arg	Asn	Glu	Lys	Met	Lys	Asn	Gln	Ile	Lys	115	120	125
Gln	Met	Met	Asp	Val	Ser	Arg	Thr	Gln	Thr	Ala	Ile	Ser	Val	Val	Glu	130	135	140
Glu	Asp	Leu	Lys	Leu	Leu	Gln	Leu	Lys	Leu	Arg	Ala	Ser	Val	Ser	Thr	145	150	155
Lys	Cys	Asn	Leu	Glu	Asp	Gln	Val	Lys	Lys	Leu	Glu	Asp	Asp	Arg	Asn	165	170	175
Ser	Leu	Gln	Ala	Ala	Lys	Ala	Gly	Leu	Glu	Asp	Glu	Cys	Lys	Thr	Leu	180	185	190
Arg	Gln	Lys	Val	Glu	Ile	Leu	Asn	Glu	Leu	Tyr	Gln	Gln	Lys	Glu	Met	195	200	205
Ala	Leu	Gln	Lys	Lys	Leu	Ser	Gln	Glu	Glu	Tyr	Glu	Arg	Gln	Glu	Arg	210	215	220
Glu	His	Arg	Leu	Ser	Ala	Ala	Asp	Glu	Lys	Ala	Val	Ser	Ala	Ala	Glu	225	230	235
Glu	Val	Lys	Thr	Tyr	Lys	Arg	Arg	Ile	Glu	Glu	Met	Glu	Asp	Glu	Leu	245	250	255
Gln	Lys	Thr	Glu	Arg	Ser	Phe	Lys	Asn	Gln	Ile	Ala	Thr	His	Glu	Lys	260	265	270
Lys	Ala	His	Glu	Asn	Trp	Leu	Lys	Ala	Arg	Ala	Ala	Glu	Arg	Ala	Ile	275	280	285
Ala	Glu	Glu	Lys	Arg	Glu	Ala	Ala	Asn	Leu	Arg	His	Lys	Leu	Leu	Glu	290	295	300
Leu	Thr	Gln	Lys	Met	Ala	Met	Leu	Gln	Glu	Glu	Pro	Val	Ile	Val	Lys	305	310	315
Pro	Met	Pro	Gly	Lys	Pro	Asn	Thr	Gln	Asn	Pro	Pro	Arg	Arg	Gly	Pro	325	330	335
Leu	Ser	Gln	Asn	Gly	Ser	Phe	Gly	Pro	Ser	Pro	Val	Ser	Gly	Gly	Glu	340	345	350
Cys	Ser	Pro	Pro	Leu	Thr	Val	Glu	Pro	Pro	Val	Arg	Pro	Leu	Ser	Ala	355	360	365
Thr	Leu	Asn	Arg	Arg	Asp	Met	Pro	Arg	Ser	Glu	Phe	Gly	Ser	Val	Asp	370	375	380

4248

Gly Pro Leu Pro His Pro Arg Trp Ser Ala Glu Ala Ser Gly Lys Pro
 385 390 395 400
 Ser Pro Ser Asp Pro Gly Ser Gly Thr Ala Thr Met Met Asn Ser Ser
 405 410 415
 Ser Arg Gly Ser Ser Pro Thr Arg Val Leu Asp Glu Gly Lys Val Asn
 420 425 430
 Met Ala Pro Lys Gly Pro Pro Pro Phe Pro Gly Val Pro Leu Met Ser
 435 440 445
 Thr Pro Met Gly Gly Pro Val Pro Pro Pro Ile Arg Tyr Gly Pro Pro
 450 455 460
 Pro Gln Leu Cys Gly Pro Phe Gly Pro Arg His Phe Leu His Pro Leu
 465 470 475 480
 Ala Leu Val Cys Val His His
 485

<210> 4676

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4676

Ala Phe Asp Glu Ala Ile Ala Glu Leu Asp Thr Leu Asn Glu Glu Ser
 1 5 10 15
 Tyr Lys Asp Ser Thr Leu Xaa Met Gln Leu Leu Arg Asp Asn Leu Thr
 20 25 30
 Val Ser Thr Thr Ser Thr Gly Phe Ile Val Ser Phe Leu Phe Thr Tyr
 35 40 45
 Leu Ile Ile His Cys Tyr Leu Gln Glu Gly Ile Cys Thr Ile Lys Cys
 50 55 60
 Ser Tyr Ser Phe Lys Leu Leu Asn Leu Leu
 65 70

4249

<210> 4677

<211> 414

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (391)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4677

Val	Ile	Gly	Glu	Phe	Arg	Asp	Cys	Ile	Ser	Ser	Arg	Glu	Phe	Leu	Gln
1				5					10					15	

Pro	Ser	Ser	Lys	Ala	Ser	Leu	Glu	Ser	Thr	Ser	Asp	Leu	Gly	Ala	Ser
			20					25					30		

Gly	Lys	His	Gly	Gly	Asn	Val	Ser	Leu	Asp	Val	Leu	Pro	Val	Lys	Gly
		35					40					45			

Pro	Gln	Gly	Ser	Pro	Leu	Leu	Ser	Arg	Ala	Ala	Arg	Pro	Pro	Asp	Gln
	50					55					60				

Leu	Ala	Ser	Glu	Glu	Pro	Trp	Thr	Val	Leu	Pro	Glu	His	Leu	Ile	Leu
65					70					75					80

Val	Ala	Pro	Ser	Pro	Cys	Asp	Met	Ala	Lys	Thr	Gly	Arg	Phe	Gln	Ile
				85					90					95	

Val	Asn	Asn	Ser	Val	Arg	Leu	Leu	Arg	Phe	Glu	Leu	Cys	Trp	Pro	Ala
			100					105					110		

His	Cys	Leu	Thr	Val	Thr	Pro	Gln	His	Gly	Cys	Val	Ala	Pro	Glu	Ser
		115					120					125			

Lys	Leu	Gln	Ile	Leu	Val	Ser	Pro	Asn	Ser	Ser	Leu	Ser	Thr	Lys	Gln
	130					135					140				

Ser	Met	Phe	Pro	Trp	Ser	Gly	Leu	Ile	Tyr	Ile	His	Cys	Asp	Asp	Gly
145					150					155					160

Gln	Lys	Lys	Ile	Val	Lys	Val	Gln	Ile	Arg	Glu	Asp	Leu	Thr	Gln	Val
				165					170					175	

Glu	Leu	Leu	Thr	Arg	Leu	Thr	Ser	Lys	Pro	Phe	Gly	Ile	Leu	Ser	Pro
			180					185					190		

Val	Ser	Glu	Pro	Ser	Val	Ser	His	Leu	Val	Lys	Pro	Met	Thr	Lys	Pro
		195					200					205			

Pro	Ser	Thr	Lys	Val	Glu	Ile	Arg	Asn	Lys	Ser	Ile	Thr	Phe	Pro	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4250

210					215					220					
Thr	Glu	Pro	Gly	Glu	Thr	Ser	Glu	Ser	Cys	Leu	Glu	Leu	Glu	Asn	His
225					230					235					240
Gly	Thr	Thr	Asp	Val	Lys	Trp	His	Leu	Ser	Ser	Leu	Ala	Pro	Pro	Tyr
				245					250					255	
Val	Lys	Gly	Val	Asp	Glu	Ser	Gly	Asp	Val	Phe	Arg	Ala	Thr	Tyr	Ala
			260					265					270		
Ala	Phe	Arg	Cys	Ser	Pro	Ile	Ser	Gly	Leu	Leu	Glu	Ser	His	Gly	Ile
			275				280						285		
Gln	Lys	Val	Ser	Ile	Thr	Phe	Leu	Pro	Arg	Gly	Arg	Gly	Asp	Tyr	Ala
	290					295					300				
Gln	Phe	Trp	Asp	Val	Glu	Cys	His	Pro	Leu	Lys	Glu	Pro	His	Met	Lys
305					310					315					320
His	Thr	Leu	Arg	Phe	Gln	Leu	Ser	Gly	Gln	Ser	Ile	Glu	Ala	Glu	Asn
				325					330					335	
Glu	Pro	Glu	Asn	Ala	Cys	Leu	Ser	Thr	Asp	Ser	Leu	Ile	Lys	Ile	Asp
			340					345					350		
His	Leu	Val	Lys	Pro	Arg	Arg	Gln	Ala	Val	Ser	Glu	Ala	Ser	Ala	Arg
		355					360					365			
Ile	Pro	Asp	Arg	Gln	Leu	Asp	Val	Thr	Ala	Arg	Gly	Val	Tyr	Ala	Pro
	370					375					380				
Glu	Asp	Val	Tyr	Arg	Ser	Xaa	Arg	Leu	Val	Trp	Gly	Asn	His	Gly	His
385					390					395					400
Leu	Lys	Ala	Ile	Cys	Glu	Ile	Ile	Leu	Leu	Leu	His	Thr	His		
				405				410							

<210> 4678

<211> 85

<212> PRT

<213> Homo sapiens

<400> 4678

Leu	Tyr	Ile	Phe	Phe	Gly	Lys	Lys	Tyr	Leu	Lys	Thr	Ser	Ala	Tyr	Lys
1				5					10					15	

Asp	Ser	Gln	Lys	Cys	Gln	Arg	Phe	Ser	Arg	Lys	Phe	Ile	Leu	Tyr	Ile
			20					25					30		

4251

Ser Lys Met Ile Tyr Gln Cys Tyr Leu Pro Lys Glu Ile Ile Leu Phe
 35 40 45

Phe Pro Phe Gly Glu Ile Leu Ser Ser Asn Met Arg Ile Arg Ser Leu
 50 55 60

Asp Ser Ile Ser Thr Tyr Thr Ile Lys Leu Asn Leu Glu Pro Glu Leu
 65 70 75 80

Gly Cys Ser Val Pro
 85

<210> 4679

<211> 112

<212> PRT

<213> Homo sapiens

<400> 4679

Arg Ala Pro Cys Val Ser Leu Ser Ser Gln Val His Ser Gly Leu Leu
 1 5 10 15

Leu His Pro Leu Leu Arg Gly Cys Pro Ala Gly Arg Gly Pro Leu Leu
 20 25 30

Ser Gln Leu Gln Ser Ser Pro Gly His Leu Gln Ala Phe Val Gly Leu
 35 40 45

Ser Gln Thr Trp Arg Glu Pro Gly Ala Ala Gly Ser Pro Phe His Leu
 50 55 60

Ser Ser Ser Phe Thr Pro Gly Gly Gly Ser Ala Leu Val Val Ser Pro
 65 70 75 80

Leu Gln Gly Ala His Leu His Val Phe Phe Trp Gly Glu Tyr Val Ala
 85 90 95

Lys Leu Thr Asn Leu Gln Thr Pro Glu Ile Ala Ala Trp Ser Arg Ala
 100 105 110

<210> 4680

<211> 561

<212> PRT

<213> Homo sapiens

4252

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4680

Asn	Cys	His	Phe	Lys	Leu	Ser	Ser	His	Tyr	Leu	Asp	Gly	Tyr	Thr	Ser
1				5					10					15	

Pro	Gly	Phe	Lys	Met	Leu	Glu	Ala	Tyr	Asn	Leu	Thr	Glu	Lys	Asn	Phe
			20					25					30		

Ala	Ser	Val	Gln	Gly	Val	Ser	Leu	Glu	Ser	Gly	Ser	Phe	Pro	Ser	Tyr
		35					40					45			

Ser	Ala	Tyr	Arg	Ile	Gln	Lys	Asn	Ala	Phe	Val	Asn	Gln	Pro	Thr	Ala
	50					55					60				

Asp	Leu	His	Gln	Asn	Gly	Leu	Pro	Pro	Ser	Tyr	Thr	Ile	Ile	Leu	Leu
65					70					75				80	

Phe	Arg	Leu	Leu	Pro	Glu	Thr	Pro	Ser	Asp	Pro	Phe	Ala	Ile	Trp	Gln
				85					90					95	

Ile	Thr	Asp	Arg	Asp	Tyr	Lys	Pro	Gln	Val	Gly	Val	Ile	Ala	Asp	Xaa
			100					105					110		

Ser	Ser	Lys	Thr	Leu	Ser	Phe	Phe	Asn	Lys	Asp	Thr	Arg	Gly	Glu	Val
		115						120				125			

Gln	Thr	Val	Thr	Phe	Asp	Thr	Glu	Glu	Val	Lys	Thr	Leu	Phe	Tyr	Gly
	130					135					140				

Ser	Phe	His	Lys	Val	His	Ile	Val	Val	Thr	Ser	Lys	Ser	Val	Lys	Ile
145					150					155					160

Tyr	Ile	Asp	Cys	Tyr	Glu	Ile	Ile	Xaa	Lys	Xaa	Ile	Lys	Glu	Ala	Gly
			165						170					175	

Asn	Ile	Thr	Thr	Asp	Gly	Tyr	Glu	Ile	Leu	Gly	Lys	Leu	Leu	Lys	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4253

180	185	190
Glu Arg Lys Ser Ala Ala Phe Gln Ile Gln Ser Phe Asp Ile Val Cys		
195	200	205
Ser Pro Val Trp Thr Ser Arg Asp Arg Cys Cys Asp Ile Pro Ser Arg		
210	215	220
Arg Asp Glu Gly Lys Cys Pro Ala Phe Pro Asn Ser Cys Thr Cys Thr		
225	230	235
Gln Asp Ser Val Gly Pro Pro Gly Pro Pro Gly Pro Ala Gly Gly Pro		
245	250	255
Gly Ala Lys Gly Pro Arg Gly Glu Arg Gly Ile Ser Gly Ala Ile Gly		
260	265	270
Pro Pro Gly Pro Arg Gly Asp Ile Gly Pro Pro Gly Pro Gln Gly Pro		
275	280	285
Pro Gly Pro Gln Gly Pro Asn Gly Leu Ser Ile Pro Gly Glu Gln Gly		
290	295	300
Arg Gln Gly Met Lys Gly Asp Ala Gly Glu Pro Gly Leu Pro Gly Arg		
305	310	315
Thr Gly Thr Pro Gly Leu Pro Gly Pro Pro Gly Pro Met Gly Pro Pro		
325	330	335
Gly Asp Arg Gly Phe Thr Gly Lys Asp Gly Ala Met Gly Pro Arg Gly		
340	345	350
Pro Pro Gly Pro Pro Gly Ser Pro Gly Ser Pro Gly Val Thr Gly Pro		
355	360	365
Ser Gly Lys Pro Gly Lys Pro Gly Asp His Gly Arg Pro Gly Pro Ser		
370	375	380
Gly Leu Lys Gly Glu Lys Gly Asp Arg Gly Asp Ile Ala Ser Gln Asn		
385	390	395
Met Met Arg Ala Val Ala Arg Gln Val Cys Glu Gln Leu Ile Ser Gly		
405	410	415
Gln Met Asn Arg Phe Asn Gln Met Leu Asn Gln Ile Pro Asn Asp Tyr		
420	425	430
Gln Ser Ser Arg Asn Gln Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro		
435	440	445
Gly Ser Ala Gly Ala Arg Gly Glu Pro Gly Pro Gly Gly Arg Pro Gly		

4254

450 455 460
 Phe Pro Gly Thr Pro Gly Met Gln Gly Pro Pro Gly Glu Arg Gly Leu
 465 470 475 480
 Pro Gly Glu Lys Gly Glu Arg Gly Thr Gly Ser Ser Gly Pro Arg Gly
 485 490 495
 Leu Pro Gly Pro Pro Gly Pro Gln Gly Glu Ser Arg Thr Gly Pro Pro
 500 505 510
 Gly Ser Thr Gly Ser Arg Gly Pro Pro Gly Pro Pro Gly Arg Pro Gly
 515 520 525
 Asn Ser Gly Ile Arg Gly Pro Pro Gly Pro Pro Gly Tyr Cys Asp Ser
 530 535 540
 Ser Gln Cys Ala Ser Ile Pro Tyr Asn Gly Gln Ser Tyr Pro Gly Ser
 545 550 555 560
 Gly

<210> 4681

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4681

Thr Ser Pro Thr Thr His Leu Ser Leu Val Pro Asn Ser Cys Ser Pro
 1 5 10 15

Gly Asp Pro Leu Val Leu Glu Arg Pro Pro Pro Arg Trp Ser Xaa Ser
 20 25 30

Phe Val Pro Leu Val Arg
 35

<210> 4682

<211> 309

<212> PRT

<213> Homo sapiens

4255

<400> 4682

```

Pro Ala Ile Ala Met Ala Arg Gly Lys Ala Lys Glu Glu Gly Ser Trp
  1             5             10             15

Lys Lys Phe Ile Trp Asn Ser Glu Lys Lys Glu Phe Leu Gly Arg Thr
      20             25             30

Gly Gly Ser Trp Phe Lys Ile Leu Leu Phe Tyr Val Ile Phe Tyr Gly
      35             40             45

Cys Leu Ala Gly Ile Phe Ile Gly Thr Ile Gln Val Met Leu Leu Thr
      50             55             60

Ile Ser Glu Phe Lys Pro Thr Tyr Gln Asp Arg Val Ala Pro Pro Gly
      65             70             75             80

Leu Thr Gln Ile Pro Gln Ile Gln Lys Thr Glu Ile Ser Phe Arg Pro
      85             90             95

Asn Asp Pro Lys Ser Tyr Glu Ala Tyr Val Leu Asn Ile Val Arg Phe
      100            105            110

Leu Glu Lys Tyr Lys Asp Ser Ala Gln Arg Asp Asp Met Ile Phe Glu
      115            120            125

Asp Cys Gly Asp Val Pro Ser Glu Pro Lys Glu Arg Gly Asp Phe Asn
      130            135            140

His Glu Arg Gly Glu Arg Lys Val Cys Arg Phe Lys Leu Glu Trp Leu
      145            150            155            160

Gly Asn Cys Ser Gly Leu Asn Asp Glu Thr Tyr Gly Tyr Lys Glu Gly
      165            170            175

Lys Pro Cys Ile Ile Ile Lys Leu Asn Arg Val Leu Gly Phe Lys Pro
      180            185            190

Lys Pro Pro Lys Asn Glu Ser Leu Glu Thr Tyr Pro Val Met Lys Tyr
      195            200            205

Asn Pro Asn Val Leu Pro Val Gln Cys Thr Gly Lys Arg Asp Glu Asp
      210            215            220

Lys Asp Lys Val Gly Asn Val Glu Tyr Phe Gly Leu Gly Asn Ser Pro
      225            230            235            240

Gly Phe Pro Leu Gln Tyr Tyr Pro Tyr Tyr Gly Lys Leu Leu Gln Pro
      245            250            255

Lys Tyr Leu Gln Pro Leu Leu Ala Val Gln Phe Thr Asn Leu Thr Met

```

4256

260 265 270
 Asp Thr Glu Ile Arg Ile Glu Cys Lys Ala Tyr Gly Glu Asn Ile Gly
 275 280 285
 Tyr Ser Glu Lys Asp Arg Phe Gln Gly Arg Phe Asp Val Lys Ile Glu
 290 295 300
 Val Lys Ser Asp Ser
 305

<210> 4683

<211> 177

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4683

Cys Phe Gly Phe Val Phe Pro Glu Ala Ala Ile Trp Ser Leu Ser Thr
 1 5 10 15
 Gly Met Ser Gln Thr Gly Pro Pro Met Ser Met Ala Ala Pro Ala Arg
 20 25 30
 Asn Ala Arg Val Ser Leu Pro Gly Leu Arg Val Asp Met Pro Ala Pro
 35 40 45
 Cys Gln Pro Pro Val Ala Trp Pro Gly Xaa Pro Glu Pro Val Cys Pro
 50 55 60
 Pro Gln Gly Trp Arg Ser Leu Trp Ala Pro Gly Gly Phe Pro Pro Gly
 65 70 75 80
 Asp Ser His Gly Ala Pro Cys Ser Arg Val Val Thr Val Ser Pro Glu
 85 90 95
 Met Thr Glu Thr Arg His Ser Pro Gly Pro Gln Arg Gly Gly Ala Ser
 100 105 110
 Arg Gln Thr Leu Gly Met Glu Leu Trp Cys Gly Leu Ser Cys Met Val
 115 120 125
 Ala Ser Ala Phe Cys Gln His Phe Trp Met Asp Ile Gly Thr Ile Ile
 130 135 140

4257

Ser Ile Leu Ile His Gly Asp Phe Lys Thr Thr Ile Lys Leu Ile Gln
 145 150 155 160

Ser Pro Leu Thr Leu Thr Asp Val Gly Ile Pro Leu Leu Glu Arg Glu
 165 170 175

Leu

<210> 4684

<211> 439

<212> PRT

<213> Homo sapiens

<400> 4684

Ala Arg Asp Glu Met Gly His Asn Phe Gly Met Phe His Asp Asp Tyr
 1 5 10 15

Ser Cys Lys Cys Pro Ser Thr Ile Cys Val Met Asp Lys Ala Leu Ser
 20 25 30

Phe Tyr Ile Pro Thr Asp Phe Ser Ser Cys Ser Arg Leu Ser Tyr Asp
 35 40 45

Lys Phe Phe Glu Asp Lys Leu Ser Asn Cys Leu Phe Asn Ala Pro Leu
 50 55 60

Pro Thr Asp Ile Ile Ser Thr Pro Ile Cys Gly Asn Gln Leu Val Glu
 65 70 75 80

Met Gly Glu Asp Cys Asp Cys Gly Thr Ser Glu Glu Cys Thr Asn Ile
 85 90 95

Cys Cys Asp Ala Lys Thr Cys Lys Ile Lys Ala Thr Phe Gln Cys Ala
 100 105 110

Leu Gly Glu Cys Cys Glu Lys Cys Gln Phe Lys Lys Ala Gly Met Val
 115 120 125

Cys Arg Pro Ala Lys Asp Glu Cys Asp Leu Pro Glu Met Cys Asn Gly
 130 135 140

Lys Ser Gly Asn Cys Pro Asp Asp Arg Phe Gln Val Asn Gly Phe Pro
 145 150 155 160

Cys His His Gly Lys Gly His Cys Leu Met Gly Thr Cys Pro Thr Leu
 165 170 175

Gln Glu Gln Cys Thr Glu Leu Trp Gly Pro Gly Thr Glu Val Ala Asp

4258

180	185	190
Lys Ser Cys Tyr Asn Arg Asn Glu Gly Gly Ser Lys Tyr Gly Tyr Cys		
195	200	205
Arg Arg Val Asp Asp Thr Leu Ile Pro Cys Lys Ala Asn Asp Thr Met		
210	215	220
Cys Gly Lys Leu Phe Cys Gln Gly Gly Ser Asp Asn Leu Pro Trp Lys		
225	230	235
Gly Arg Ile Val Thr Phe Leu Thr Cys Lys Thr Phe Asp Pro Glu Asp		
	245	250
		255
Thr Ser Gln Glu Ile Gly Met Val Ala Asn Gly Thr Lys Cys Gly Asp		
	260	265
		270
Asn Lys Val Cys Ile Asn Ala Glu Cys Val Asp Ile Glu Lys Ala Tyr		
	275	280
		285
Lys Ser Thr Asn Cys Ser Ser Lys Cys Lys Gly His Ala Val Cys Asp		
	290	295
		300
His Glu Leu Gln Cys Gln Cys Glu Glu Gly Trp Ile Pro Pro Asp Cys		
	305	310
		315
Asp Asp Ser Ser Val Val Phe His Phe Ser Ile Val Val Gly Val Leu		
	325	330
		335
Phe Pro Met Ala Val Ile Phe Val Val Val Ala Met Val Ile Arg His		
	340	345
		350
Gln Ser Ser Arg Glu Lys Gln Lys Lys Asp Gln Arg Pro Leu Ser Thr		
	355	360
		365
Thr Gly Thr Arg Pro His Lys Gln Lys Arg Lys Pro Gln Met Val Lys		
	370	375
		380
Ala Val Gln Pro Gln Glu Met Ser Gln Met Lys Pro His Val Tyr Asp		
	385	390
		395
Leu Pro Val Glu Gly Asn Glu Pro Pro Ala Ser Phe His Lys Asp Thr		
	405	410
		415
Asn Ala Leu Pro Pro Thr Val Phe Lys Asp Asn Pro Met Ser Thr Pro		
	420	425
		430
Lys Asp Ser Asn Pro Lys Ala		
435		

4259

<210> 4685

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4685

Ala	Gly	Xaa	Pro	Ala	Gly	Xaa	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr
1				5					10					15	

Arg	Pro	Asp	Asp	Cys	Asn	Ser	Pro	Cys	Tyr	Arg	Arg	Glu	Ile	Ile	Gly
			20					25					30		

Ser	Cys	Leu	Leu	Thr	Leu	Cys	Val	Ala	Leu	Trp	Ser	Trp	Ile	Phe	Leu
		35					40					45			

Arg	Phe	Lys	Lys	Asn	His	Ser	Phe	Gly	Thr	Phe	Asn
	50					55					60

<210> 4686

<211> 48

<212> PRT

<213> Homo sapiens

<400> 4686

Gly	Val	Val	Tyr	Ser	Tyr	Phe	Phe	Phe	Leu	Leu	Val	Ile	Leu	Thr	Asn
1				5					10					15	

Met	Ile	Pro	Leu	Leu	Glu	Ser	Leu	Ser	Leu	Pro	His	Pro	Gln	Lys	Cys
			20					25					30		

Leu	Leu	Phe	Met	Thr	Val	Thr	Asn	Tyr	Ser	Gly	Gln	Ile	Ala	Ser	Phe
			35				40					45			

4260

<210> 4687

<211> 351

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4687

Gly	Gly	Ser	Gly	Glu	Phe	Trp	Arg	Lys	Arg	Arg	Val	Leu	Leu	Glu	Leu
1				5				10						15	

Tyr	Arg	Pro	Cys	Phe	Ser	Gly	Pro	Arg	Lys	Val	Ala	Ser	Xaa	Ser	Ala
			20					25					30		

Ala	Ala	Ser	Thr	Leu	Ser	Glu	Pro	Pro	Arg	Arg	Thr	Gln	Glu	Ser	Arg
		35					40					45			

Thr	Arg	Thr	Arg	Ala	Leu	Gly	Leu	Pro	Thr	Leu	Pro	Met	Glu	Lys	Leu
	50					55					60				

Ala	Ala	Ser	Thr	Glu	Pro	Gln	Gly	Pro	Arg	Pro	Val	Leu	Gly	Arg	Glu
65					70					75					80

Ser	Val	Gln	Val	Pro	Asp	Asp	Gln	Asp	Phe	Arg	Ser	Phe	Arg	Ser	Glu
				85					90					95	

Cys	Glu	Ala	Glu	Val	Gly	Trp	Asn	Leu	Thr	Tyr	Ser	Arg	Ala	Gly	Val
		100						105					110		

Ser	Val	Trp	Val	Gln	Ala	Val	Glu	Met	Asp	Arg	Thr	Leu	His	Lys	Ile
		115					120					125			

Lys	Cys	Arg	Met	Glu	Cys	Cys	Asp	Val	Pro	Ala	Glu	Thr	Leu	Tyr	Asp
	130					135					140				

Val	Leu	His	Asp	Ile	Glu	Tyr	Arg	Lys	Lys	Trp	Asp	Ser	Asn	Val	Ile
145					150					155					160

Glu	Thr	Phe	Asp	Ile	Ala	Arg	Leu	Thr	Val	Asn	Ala	Asp	Val	Gly	Tyr
				165					170					175	

Tyr	Ser	Trp	Arg	Cys	Pro	Lys	Pro	Leu	Lys	Asn	Arg	Asp	Val	Ile	Thr
			180					185					190		

Leu	Arg	Ser	Trp	Leu	Pro	Met	Gly	Ala	Asp	Tyr	Ile	Ile	Met	Asn	Tyr
		195					200					205			

Ser	Val	Lys	His	Pro	Lys	Tyr	Pro	Pro	Arg	Lys	Asp	Leu	Val	Arg	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4261

210	215	220
Val Ser Ile Gln Thr Gly Tyr Leu Ile Gln Ser Thr Gly Pro Lys Ser		
225	230	235 240
Cys Val Ile Thr Tyr Leu Ala Gln Val Asp Pro Lys Gly Ser Leu Pro		
	245	250 255
Lys Trp Val Val Asn Lys Ser Ser Gln Phe Leu Ala Pro Lys Ala Met		
	260	265 270
Lys Lys Met Tyr Lys Ala Cys Leu Lys Tyr Pro Glu Trp Lys Gln Lys		
	275	280 285
His Leu Pro His Phe Lys Pro Trp Leu His Pro Glu Gln Ser Pro Leu		
	290	295 300
Pro Ser Leu Ala Leu Ser Glu Leu Ser Val Gln His Ala Asp Ser Leu		
	305	310 315 320
Glu Asn Ile Asp Glu Ser Ala Val Ala Glu Ser Arg Glu Glu Arg Met		
	325	330 335
Gly Gly Ala Gly Gly Glu Gly Ser Asp Asp Asp Thr Ser Leu Thr		
	340	345 350

<210> 4688

<211> 54

<212> PRT

<213> Homo sapiens

<400> 4688

Met Gly Val Tyr Asn Phe Tyr Val Ser Cys Phe Gln Gln Leu Cys Leu		
1	5	10 15
Gly Trp Ser Leu Ala Gly Gly Asp Arg Ile Ser Glu Trp His Ile Ile		
	20	25 30
Ser Ile Leu His Met Ser Lys Leu Arg His Arg Glu Leu Asp Asn Leu		
	35	40 45
Pro Arg Leu His Arg Leu		
50		

<210> 4689

<211> 65

<212> PRT

4262

<213> Homo sapiens

<400> 4689

Glu Gln Tyr Leu Asp Leu Met Leu Ser Glu Cys Pro Ala Leu Leu Pro
 1 5 10 15
 Ser Ala Trp Met Ser Glu Cys Phe Tyr Ala Arg Gly Asp Ser Ser Gln
 20 25 30
 Leu Arg Val Cys Phe Phe Gln Arg Ser Ser Gln Val Ser Phe Ala Lys
 35 40 45
 Leu Gly His Leu Ala Gln Val Phe Leu Glu Ser Gly Val His Val Thr
 50 55 60
 Asp
 65

<210> 4690

<211> 31

<212> PRT

<213> Homo sapiens

<400> 4690

Leu Leu Leu Ile Ser Tyr Tyr Cys Lys Ala Leu Ser Pro Ala Ser Gly
 1 5 10 15
 Ser Leu Cys Val Ile Glu Leu Lys Ile Ile Ala Val Tyr Asn Thr
 20 25 30

<210> 4691

<211> 127

<212> PRT

<213> Homo sapiens

<400> 4691

Lys Val Gln Thr Leu Phe Gly Thr Thr Arg Ser Phe His Leu Ala Lys
 1 5 10 15
 Thr Ala Asp Pro Gly Ala Arg Ala Gln Gly Ser Pro Gly Cys Gly Glu
 20 25 30
 Glu Trp Leu Trp His Leu Pro Ile Leu Trp Val Leu Gln Ala Leu Leu
 35 40 45
 Glu Val Phe Gly Leu Phe Gly Leu Trp Ser Phe Ser Pro Gly Thr Glu
 50 55 60

4263

Val Glu Met Gly Arg Arg Pro Gly Gln Cys Ser Trp Lys Leu Thr Leu
 65 70 75 80

His Phe Ser Ala Pro Val Phe Gln Phe Lys Ser Ala Phe Ser Ser Ala
 85 90 95

Glu Thr Thr Glu Leu Ser Gly Lys Cys Val Val Ala Leu Ala Thr Gly
 100 105 110

Glu Val Trp Gly Gln Leu Val Ile Arg Lys Gly Met Glu Asp Val
 115 120 125

<210> 4692

<211> 329

<212> PRT

<213> Homo sapiens

<400> 4692

Ser Tyr Val His Lys Ser Leu Ser Trp Lys Pro Leu Leu Ser Phe Ile
 1 5 10 15

Ser Pro Ser Ile Pro Ile Thr Phe Leu Arg Asn Val Thr Trp Val Met
 20 25 30

Val Asn Leu Cys Arg His Lys Asp Pro Pro Pro Pro Met Glu Thr Ile
 35 40 45

Gln Glu Ile Leu Pro Ala Leu Cys Val Leu Ile His His Thr Asp Val
 50 55 60

Asn Ile Leu Val Asp Thr Val Trp Ala Leu Ser Tyr Leu Thr Asp Ala
 65 70 75 80

Gly Asn Glu Gln Ile Gln Met Val Ile Asp Ser Gly Ile Val Pro His
 85 90 95

Leu Val Pro Leu Leu Ser His Gln Glu Val Lys Val Gln Thr Ala Ala
 100 105 110

Leu Arg Ala Val Gly Asn Ile Val Thr Gly Thr Asp Glu Gln Thr Gln
 115 120 125

Val Val Leu Asn Cys Asp Ala Leu Ser His Phe Pro Ala Leu Leu Thr
 130 135 140

His Pro Lys Glu Lys Ile Asn Lys Glu Ala Val Trp Phe Leu Ser Asn
 145 150 155 160

4264

```

Ile Thr Ala Gly Asn Gln Gln Gln Val Gln Ala Val Ile Asp Ala Asn
      165                      170                      175

Leu Val Pro Met Ile Ile His Leu Leu Asp Lys Gly Asp Phe Gly Thr
      180                      185                      190

Gln Lys Glu Ala Ala Trp Ala Ile Ser Asn Leu Thr Ile Ser Gly Arg
      195                      200                      205

Lys Asp Gln Val Ala Tyr Leu Ile Gln Gln Asn Val Ile Pro Pro Phe
      210                      215                      220

Cys Asn Leu Leu Thr Val Lys Asp Ala Gln Val Val Gln Val Val Leu
      225                      230                      235                      240

Asp Gly Leu Ser Asn Ile Leu Lys Met Ala Glu Asp Glu Ala Glu Thr
      245                      250                      255

Ile Gly Asn Leu Ile Glu Glu Cys Gly Gly Leu Glu Lys Ile Glu Gln
      260                      265                      270

Leu Gln Asn His Glu Asn Glu Asp Ile Tyr Lys Leu Ala Tyr Glu Ile
      275                      280                      285

Ile Asp Gln Phe Phe Ser Ser Asp Asp Ile Asp Glu Asp Pro Ser Leu
      290                      295                      300

Val Pro Glu Ala Ile Gln Gly Gly Thr Phe Gly Phe Asn Ser Ser Ala
      305                      310                      315                      320

Asn Val Pro Thr Glu Gly Phe Gln Phe
      325

```

<210> 4693

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4693

```

Met Leu Ser Val Ser Leu Val Phe Ile Ser Ala Ser Ser Ser Leu Leu
  1                      5                      10                      15

```

```

Gly Tyr Ile Val Val Leu Phe Pro Val Xaa His Leu Ser Leu Val Phe
      20                      25                      30

```

4265

His Tyr Gly Lys Phe Ile Lys Lys Leu Ala Pro Leu Leu Ser Ser Ser
35 40 45

Asn Ala His Lys Glu Met Glu Asp Ile
50 55

<210> 4694

<211> 69

<212> PRT

<213> Homo sapiens

<400> 4694

Gly Lys Gly Ser Lys Pro Leu Lys Met Cys Phe Val Ile Arg Ser Ala
1 5 10 15

Leu Gln Thr Lys Tyr Ala Arg Cys Pro Phe Glu Ala Ser Glu Leu Ser
20 25 30

Leu Gln Gly Phe Lys Ala Thr Phe Gln Gln Glu Lys Ala Leu Arg Ala
35 40 45

Arg Arg Phe Ile Lys Glu Gly Lys Ala Leu Val Ser Leu Leu Arg Lys
50 55 60

Val Gly Phe Leu Ala
65

<210> 4695

<211> 461

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

 $\langle 222 \rangle \quad (312)$

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (406)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4695

Gly Ser Pro Arg Leu Leu Gly Ala Ala Ala Leu Ala Leu Gly Gly Ala
1 5 10 15

4266

Leu Gly Leu Tyr His Thr Ala Arg Trp His Leu Arg Ala Gln Asp Leu
 20 25 30
 His Ala Glu Arg Ser Ala Ala Gln Leu Ser Leu Ser Ser Arg Leu Gln
 35 40 45
 Leu Thr Leu Tyr Gln Tyr Lys Thr Cys Pro Phe Cys Ser Lys Val Arg
 50 55 60
 Ala Phe Leu Asp Phe His Ala Leu Pro Tyr Gln Val Val Glu Val Asn
 65 70 75 80
 Pro Val Arg Arg Ala Glu Ile Lys Phe Ser Ser Tyr Arg Lys Val Pro
 85 90 95
 Ile Leu Val Ala Gln Glu Gly Glu Ser Ser Gln Gln Leu Asn Asp Ser
 100 105 110
 Ser Val Ile Ile Ser Ala Leu Lys Thr Tyr Leu Val Ser Gly Gln Pro
 115 120 125
 Leu Glu Glu Ile Ile Thr Tyr Tyr Pro Ala Met Lys Ala Val Asn Glu
 130 135 140
 Gln Gly Lys Glu Val Thr Glu Phe Gly Asn Lys Tyr Trp Leu Met Leu
 145 150 155 160
 Asn Glu Lys Glu Ala Gln Gln Val Tyr Gly Gly Lys Glu Ala Arg Thr
 165 170 175
 Glu Glu Met Lys Trp Arg Gln Trp Ala Asp Asp Trp Leu Val His Leu
 180 185 190
 Ile Ser Pro Asn Val Tyr Arg Thr Pro Thr Glu Ala Leu Ala Ser Phe
 195 200 205
 Asp Tyr Ile Val Arg Glu Gly Lys Phe Gly Ala Val Glu Gly Ala Val
 210 215 220
 Ala Lys Tyr Met Gly Ala Ala Ala Met Tyr Leu Ile Ser Lys Arg Leu
 225 230 235 240
 Lys Ser Arg His Arg Leu Gln Asp Asn Val Arg Glu Asp Leu Tyr Glu
 245 250 255
 Ala Ala Asp Lys Trp Val Ala Ala Val Gly Lys Asp Arg Pro Phe Met
 260 265 270
 Gly Gly Gln Lys Pro Asn Leu Ala Asp Leu Ala Val Tyr Gly Val Leu
 275 280 285

4267

Arg Val Met Glu Gly Leu Asp Ala Phe Asp Asp Leu Met Gln His Thr
 290 295 300
 His Ile Gln Pro Trp Tyr Leu Xaa Val Glu Arg Ala Ile Thr Glu Ala
 305 310 315 320
 Pro Gln Arg Thr Glu Cys Pro Pro Arg Arg Ala Glu Gly Arg Gln Ala
 325 330 335
 Glu Asp Ala Ser Cys Pro Arg Pro Gly Pro Leu Gly Pro Ala Pro Gly
 340 345 350
 Asp Thr Gly Trp Gly Gln Asp His Ser Ala Pro Cys Pro Arg Thr Pro
 355 360 365
 Thr Ser Pro Leu Ala Ser Asn Thr Gly His Leu Leu Gly Leu Arg Asp
 370 375 380
 Val Arg Asp Glu Phe Gln Pro Cys His Cys Pro Gly Ala Thr Pro Pro
 385 390 395 400
 Cys Pro Cys Leu Pro Xaa Cys Arg Pro Ser Ser Trp Thr Leu Ser Gly
 405 410 415
 Cys Pro Met Ala Thr Ser Cys Gly Trp Gly Pro Ser Thr Gly Gln Gln
 420 425 430
 Asp Gly Leu Phe Ser Val Glu Ser His Pro Trp Val Pro Leu Val Pro
 435 440 445
 Thr Leu Pro Lys Pro Pro Gly Thr Gly Thr Cys Leu Gln
 450 455 460

<210> 4696

<211> 274

<212> PRT

<213> Homo sapiens

<400> 4696

Thr Ser Arg Gln Asn Lys Thr Glu Asn Leu Leu Glu Ser Arg Met Met
 1 5 10 15
 Asp Pro Cys Ser Val Gly Val Gln Leu Arg Thr Thr Asn Glu Cys His
 20 25 30
 Lys Thr Tyr Tyr Thr Arg His Thr Gly Phe Lys Thr Leu Gln Glu Leu
 35 40 45
 Ser Ser Asn Asp Met Leu Leu Leu Gln Leu Arg Thr Gly Met Thr Leu

4268

50		55		60	
Ser Gly Asn Asn Thr Ile Cys Phe His His Val Lys Ile Tyr Ile Asp					
65		70		75	80
Arg Phe Glu Asp Leu Gln Lys Ser Cys Cys Asp Pro Phe Asn Ile His					
	85		90		95
Lys Lys Leu Ala Lys Lys Asn Leu His Val Ile Asp Leu Asp Asp Ala					
	100		105		110
Thr Phe Leu Ser Ala Lys Phe Gly Arg Gln Leu Val Pro Gly Trp Lys					
	115		120		125
Leu Cys Pro Lys Cys Thr Gln Ile Ile Asn Gly Ser Val Asp Val Asp					
	130		135		140
Thr Glu Asp Arg Gln Lys Arg Lys Pro Glu Ser Asp Gly Arg Thr Ala					
145		150		155	160
Lys Ala Leu Arg Ser Leu Gln Phe Thr Asn Pro Gly Arg Gln Thr Glu					
	165		170		175
Phe Ala Pro Glu Thr Gly Lys Arg Glu Lys Arg Arg Leu Thr Lys Asn					
	180		185		190
Ala Thr Ala Gly Ser Asp Arg Gln Val Ile Pro Ala Lys Ser Lys Val					
	195		200		205
Tyr Asp Ser Gln Gly Leu Leu Ile Phe Ser Gly Met Asp Leu Cys Asp					
	210		215		220
Cys Leu Asp Glu Asp Cys Leu Gly Cys Phe Tyr Ala Cys Pro Ala Cys					
225		230		235	240
Gly Ser Thr Lys Cys Gly Ala Glu Cys Arg Cys Asp Arg Lys Trp Leu					
	245		250		255
Tyr Glu Gln Ile Glu Ile Glu Gly Gly Glu Ile Ile His Asn Lys His					
	260		265		270
Ala Gly					

<210> 4697

<211> 122

<212> PRT

<213> Homo sapiens

4269

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (113)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4697
 Leu Gly Asp Glu Thr Gly Ser Ser Met Thr His Leu Ile Glu Tyr Asp
 1 5 10 15
 Arg His Xaa Lys Ser Arg Leu Xaa Pro Leu Gln His Leu Tyr Leu Leu
 20 25 30
 Pro Ala Asp His Ser Arg Asn Ala Ala Glu Arg Phe Pro Gly Ala Trp
 35 40 45
 Phe Gln Xaa Pro Thr Val Asp Ser Glu Ala Ser Ala Phe Ala Gly Gly
 50 55 60
 Leu Pro Val Ile Phe Trp Ser Trp Ala Gly Leu Val Gly Phe Pro Phe
 65 70 75 80
 Val Trp Pro Val Ser Xaa Cys Leu Asn Pro Leu Ser Phe Ile Lys Ser
 85 90 95
 Lys Thr Lys Glu Lys Lys Lys Lys Lys Lys Lys Lys Phe Gly Gly Gly
 100 105 110
 Xaa Arg Tyr Pro Ile Gly Pro Leu Gly Gly
 115 120

4270

<210> 4698

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4698

Asn	Ser	Gly	Ser	His	Asn	Ile	Val	Ala	Ser	Arg	Ser	Xaa	Xaa	Ile	Phe
1				5					10					15	

Asp	Gln	Asp	Asp	Xaa	Asn	Gly	Leu	Thr	Trp	Val	Phe	Ile	Val	Tyr	Gln
		20						25					30		

Ile	Leu	His	Thr	Lys	Glu	Trp	Lys	Tyr	Ser	Phe	Thr	Lys	Phe	Leu	Arg
		35					40					45			

Lys	Ile	Phe	Leu	Pro	Ile	Tyr	His	Asn	Tyr	Arg	Met	Asp	Ile	Cys	Phe
	50					55					60				

<210> 4699

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4271

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4699

Gly	Ala	Arg	Leu	Gly	Ala	Leu	Gln	Ala	Ala	Pro	Gln	Pro	Gly	Thr	Pro
1				5					10					15	

Thr	Pro	Leu	Arg	Ser	Pro	Gln	Ala	Ser	Gly	Pro	His	Pro	Ser	Glu	Ala
			20					25					30		

Gln	Gly	Ser	Pro	Val	His	Ala	Gly	Phe	Ser	Pro	Gly	Pro	Met	Ser	Phe
		35					40					45			

Leu	Ala	Gly	Leu	Gly	Leu	Ala	Val	Gly	Leu	Ala	Leu	Leu	Leu	Tyr	Cys
	50					55					60				

Tyr	Pro	Pro	Asp	Pro	Lys	Gly	Leu	Pro	Gly	Thr	Arg	Arg	Val	Xaa	Gly
65					70					75					80

Phe	Xaa	Xaa	Val	Ile	Ile	Asp	Arg	His	Val	Ser	Arg	Tyr	Leu	Leu	Ala
				85					90					95	

Phe	Leu	Ala	Asp	Asp	Leu	Gly	Gly	Leu
			100				105	

<210> 4700

<211> 232

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4700

Gly	Ala	Ile	Gly	Thr	Ser	Ser	Pro	Ala	Leu	Leu	Glu	Cys	Gln	Glu	Gly
1				5					10					15	

4272

Val Gly Pro Ala Arg Pro Ser Leu Leu Val Pro Pro Pro Pro Arg Xaa
 20 25 30
 Arg Arg Leu Asp Leu Ala Arg Thr Leu Pro Ala Glu Arg Thr Asp Ser
 35 40 45
 Gln Ser Leu Tyr Ile Val Tyr Ile Ala Leu Pro Gly Arg Thr Pro Arg
 50 55 60
 Pro Ala Leu Ala Phe Ala Phe Leu Met Pro Ala Cys Cys Asn Arg Pro
 65 70 75 80
 Ser Pro Arg Pro Ser Pro Ala His Leu Thr Ala Ser Ser Val Leu Arg
 85 90 95
 Arg Gln Arg His Val Leu Ala Ala Ser Ala Ala Ser Pro Cys Gln Trp
 100 105 110
 Ser Gly Leu Arg Val Ala His Ser Leu Arg Gln Val Val Ser Leu Cys
 115 120 125
 Pro Arg Cys Thr Gly Ser Cys Pro Phe Ser Gly Ala Cys Ala Ser Ser
 130 135 140
 Leu Pro Ser Pro Xaa Ser Cys Pro His Ser His Ser Gly Ser Trp Gly
 145 150 155 160
 Thr Trp Ser Gln Gly Arg Pro Cys Ser Ser Thr Glu Val Ala Gly Leu
 165 170 175
 Ala Leu Trp Pro Thr Asp Phe Leu Ser Cys Leu Leu Asp Ala Ser Glu
 180 185 190
 Leu Gln Thr Gln Gly Ser His Gly Phe Ser Phe Thr Pro Thr Gly Phe
 195 200 205
 Ser Ser Asn Arg Lys Val Gly Val Gly Ser Cys Arg Asp Gly Ala Gly
 210 215 220
 Arg Gly Ala Met Gly Gly Leu Phe
 225 230

<210> 4701

<211> 665

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4273

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4701

Asp	Val	His	His	Arg	Ala	Glu	Cys	Arg	Ala	Asp	Arg	His	Arg	Arg	Glu
1				5					10					15	

Xaa	Leu	Tyr	Asp	Met	Phe	Val	Asn	Phe	Pro	Asp	Gln	Pro	Val	Val	Trp
			20					25					30		

Arg	Glu	Ile	Ser	Ile	Ile	Thr	Ser	Ala	Leu	Arg	Asn	Asp	Ser	Gln	Asp
		35					40					45			

Lys	Gln	Thr	Gln	Phe	Leu	Arg	Ser	Leu	Phe	Glu	Thr	Leu	Pro	Gly	Arg
	50					55					60				

Val	Gln	Cys	Glu	Met	Leu	Leu	Lys	Val	Thr	Glu	Gln	Cys	Phe	Asn	Thr
65					70					75					80

Leu	Glu	Arg	Ser	Glu	Met	Leu	Leu	Leu	Leu	Leu	Arg	Arg	Phe	Pro	Glu
				85					90					95	

Thr	Val	Val	Gln	His	Gly	Val	Gly	Leu	Gly	Xaa	Ala	Leu	Leu	Xaa	Ala
			100					105					110		

Glu	Thr	Ile	Xaa	Glu	Gln	Glu	Ser	Pro	Val	Asn	Cys	Phe	Arg	Lys	Leu
		115					120					125			

Phe	Val	Cys	Asp	Val	Leu	Pro	Leu	Ile	Ile	Asn	Asn	His	Asp	Val	Arg
	130					135					140				

Leu	Pro	Ala	Asn	Leu	Leu	Tyr	Lys	Tyr	Leu	Asn	Lys	Ala	Ala	Glu	Phe
145					150					155					160

Tyr	Ile	Asn	Tyr	Val	Thr	Arg	Ser	Thr	Gln	Ile	Glu	Asn	Gln	His	Gln
				165					170					175	

4274

Gly	Ala	Gln	Asp	Thr	Ser	Asp	Leu	Met	Ser	Pro	Ser	Lys	Arg	Ser	Ser		
			180					185					190				
Gln	Lys	Tyr	Ile	Ile	Glu	Gly	Leu	Thr	Glu	Lys	Ser	Ser	Gln	Ile	Val		
		195					200						205				
Asp	Pro	Trp	Glu	Arg	Leu	Phe	Lys	Ile	Leu	Asn	Val	Val	Gly	Met	Arg		
	210					215					220						
Cys	Glu	Trp	Gln	Met	Asp	Lys	Gly	Arg	Arg	Ser	Tyr	Gly	Asp	Ile	Leu		
225					230					235					240		
His	Arg	Met	Lys	Asp	Leu	Cys	Arg	Tyr	Met	Asn	Asn	Phe	Asp	Ser	Glu		
				245					250					255			
Ala	His	Ala	Lys	Tyr	Lys	Asn	Gln	Val	Val	Tyr	Ser	Thr	Met	Leu	Val		
			260					265					270				
Phe	Phe	Lys	Asn	Ala	Phe	Gln	Tyr	Val	Asn	Ser	Ile	Gln	Pro	Ser	Leu		
		275					280					285					
Phe	Gln	Gly	Pro	Asn	Ala	Pro	Ser	Gln	Val	Pro	Leu	Val	Leu	Leu	Glu		
	290					295					300						
Asp	Val	Ser	Asn	Val	Tyr	Gly	Asp	Val	Glu	Ile	Asp	Arg	Asn	Lys	His		
305					310					315					320		
Ile	His	Lys	Lys	Arg	Lys	Leu	Ala	Glu	Gly	Arg	Glu	Lys	Thr	Met	Ser		
				325					330					335			
Ser	Asp	Asp	Glu	Asp	Cys	Ser	Ala	Lys	Gly	Arg	Asn	Arg	His	Ile	Val		
			340					345					350				
Val	Asn	Lys	Ala	Glu	Leu	Ala	Asn	Ser	Thr	Glu	Val	Leu	Glu	Ser	Phe		
		355					360						365				
Lys	Leu	Ala	Arg	Glu	Ser	Trp	Glu	Leu	Leu	Tyr	Ser	Leu	Glu	Phe	Leu		
	370					375					380						
Asp	Lys	Glu	Phe	Thr	Arg	Ile	Cys	Leu	Ala	Trp	Lys	Thr	Asp	Thr	Trp		
385					390					395					400		
Leu	Trp	Leu	Arg	Ile	Phe	Leu	Thr	Asp	Met	Ile	Ile	Tyr	Gln	Gly	Gln		
				405					410					415			
Tyr	Lys	Lys	Ala	Ile	Ala	Ser	Leu	His	His	Leu	Ala	Ala	Leu	Gln	Gly		
			420					425					430				
Ser	Ile	Ser	Gln	Pro	Gln	Ile	Thr	Gly	Gln	Gly	Thr	Leu	Glu	His	Gln		
		435					440					445					

4275

Arg Ala Leu Ile Gln Leu Ala Thr Cys His Phe Ala Leu Gly Glu Tyr
 450 455 460
 Arg Met Thr Cys Glu Lys Val Leu Asp Leu Met Cys Tyr Met Val Leu
 465 470 475 480
 Pro Ile Gln Asp Gly Gly Lys Ser Gln Glu Glu Pro Ser Lys Val Lys
 485 490 495
 Pro Lys Phe Arg Lys Gly Ser Asp Leu Lys Leu Leu Pro Cys Thr Ser
 500 505 510
 Lys Ala Ile Met Pro Tyr Cys Leu His Leu Met Leu Ala Cys Phe Lys
 515 520 525
 Leu Arg Ala Phe Thr Asp Asn Arg Asp Asp Met Ala Leu Gly His Val
 530 535 540
 Ile Val Leu Leu Gln Gln Glu Trp Pro Arg Gly Glu Asn Leu Phe Leu
 545 550 555 560
 Lys Ala Val Asn Lys Ile Cys Gln Gln Gly Asn Phe Gln Tyr Glu Asn
 565 570 575
 Phe Phe Asn Tyr Val Thr Asn Ile Asp Met Leu Glu Glu Phe Ala Tyr
 580 585 590
 Leu Arg Thr Gln Glu Gly Gly Lys Ile His Leu Glu Leu Leu Pro Asn
 595 600 605
 Gln Gly Met Leu Ile Lys His His Thr Val Thr Arg Gly Ile Thr Lys
 610 615 620
 Gly Val Lys Glu Asp Phe Arg Leu Ala Met Glu Arg Gln Val Ser Arg
 625 630 635 640
 Cys Gly Glu Asn Leu Met Val Val Leu His Arg Phe Cys Ile Asn Glu
 645 650 655
 Lys Ile Leu Leu Leu Gln Thr Leu Thr
 660 665

<210> 4702

<211> 85

<212> PRT

<213> Homo sapiens

<400> 4702

4276

Val Lys Ser Glu Asp Leu Asn Glu Val Thr Pro Lys Leu Ser Gln Ser
 1 5 10 15
 His Val Phe Leu Thr Leu Gly Ile Ser Asn Ser Ile Tyr Thr Ala Phe
 20 25 30
 Phe Lys Cys Asn Phe Gln Arg Cys Leu Leu Pro His Pro Leu Leu Leu
 35 40 45
 Ser Ile Ile Ile Asp Phe Trp Arg Leu Thr Lys Gln Ala Ile Pro Lys
 50 55 60
 Phe Ser Pro Arg Lys Val Ser Trp Ile Lys Trp Phe Leu Arg Thr Leu
 65 70 75 80
 Arg Val Tyr Ile Leu
 85

<210> 4703

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4703

Cys Asn Leu Tyr Ser Trp Arg Asn Lys Ile Phe Ile Trp Asp Tyr Phe
 1 5 10 15
 Leu Gln Pro Phe Asn Lys His Leu Leu Tyr Ala Thr Lys Arg Gln Ala
 20 25 30
 Arg Arg Trp Ala Leu Gln Thr Gln Trp Leu Val Ala Val Trp Thr Trp
 35 40 45
 Ser Leu Leu Ala Trp Asn Pro Ser Leu Pro Asn Met Gln Ser Pro His
 50 55 60
 Leu Lys Ala Ser Leu Cys Pro Phe Ser Asp Ala Leu Phe Arg Asn Ala
 65 70 75 80
 Xaa Pro Leu Tyr Ser Glu Ile Arg Arg His Lys Thr Ser Ser Lys Ser
 85 90 95
 Leu Leu Trp

4277

<210> 4704

<211> 215

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4704

Leu Gly Ala Val Gly Ala Xaa Leu Arg Gly Leu Arg Gly Cys Arg Gly
 1 5 10 15

Ala Arg Gly Ala Gly Gly Lys Ala His Leu Gly Trp Pro Trp Arg Ala
 20 25 30

Gly Gly Asp Met Glu Asp Gly Val Leu Lys Glu Gly Phe Leu Val Lys
 35 40 45

Arg Gly His Ile Val His Asn Trp Lys Ala Arg Trp Phe Ile Leu Arg
 50 55 60

Gln Asn Thr Leu Val Tyr Tyr Lys Leu Glu Gly Gly Arg Arg Val Thr
 65 70 75 80

Pro Pro Lys Gly Arg Ile Leu Leu Asp Gly Cys Thr Ile Thr Cys Pro
 85 90 95

Cys Leu Glu Tyr Glu Asn Arg Pro Leu Leu Ile Lys Leu Lys Thr Gln
 100 105 110

Thr Ser Thr Glu Tyr Phe Leu Glu Ala Cys Ser Arg Glu Glu Arg Asp
 115 120 125

Ala Trp Ala Phe Glu Ile Thr Gly Ala Ile His Ala Gly Gln Pro Gly
 130 135 140

Lys Val Gln Gln Leu His Ser Leu Arg Asn Ser Phe Lys Leu Pro Pro
 145 150 155 160

His Ile Ser Leu His Arg Ile Val Asp Lys Met His Asp Ser Asn Thr
 165 170 175

Gly Ile Arg Ser Ser Pro Asn Met Glu Gln Gly Ser Thr Tyr Lys Lys
 180 185 190

Thr Phe Leu Gly Ser Ser Trp Trp Thr Gly Ser Ser Pro Thr Ala Ser

4278

195 200 205
 Arg Ala Ala Val Trp Arg Arg
 210 215

<210> 4705
 <211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4705
 Asp Leu Pro Pro Leu Leu Val Phe Xaa Ala Val Lys Thr Leu Ser Thr
 1 5 10 15
 Val Thr Tyr Phe Leu Ser Gln Ala Ala Ser His Leu Val Pro Cys Ala
 20 25 30
 Asp Ser Ser Thr Val Ala Arg Ile Gln Tyr Glu Ser Arg Gly Asp Arg
 35 40 45
 Arg Met Val Gly Ala Ala Gly Phe Ser Thr Tyr Pro Ser His Gln Gly
 50 55 60
 Pro Asp Ala Leu Xaa Pro Ala Pro Ser Ala His Pro Cys Ala Gln Leu
 65 70 75 80
 Glu Gly Cys Met Ala Arg Ser Pro Leu Phe Arg Trp Val Glu Thr Leu
 85 90 95
 Met Ile Pro Ala Pro Pro Xaa Arg Ala Pro Ala Thr Glu Gln Ala Leu
 100 105 110

4279

<210> 4706

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4706

Gln	Ser	Arg	His	Gln	Leu	Ala	Trp	Leu	Leu	Gly	Met	Ala	Ile	Gly	Gly
1				5				10						15	
Ser	Xaa	Cys	Gly	Pro	Leu	Leu	Ala	Asn	Cys	Met	Gln	Pro	Pro	Thr	Leu
			20					25					30		
Arg	Met	Phe	Ala	Trp	Ala	Glu	Asn	Ala	Glu	Thr	Leu	Trp	Pro	Asp	Leu
		35					40					45			
Thr	Val	Ser	Thr	Trp	Gln	Trp	Ala	Leu	Trp	Thr	Gln	His	Phe	Ser	
	50					55					60				

<210> 4707

<211> 578

<212> PRT

<213> Homo sapiens

<400> 4707

Pro	Thr	Ala	Ser	Ala	Gly	Ala	Arg	Trp	Ser	His	Lys	Thr	Ala	Ser	Val
1				5				10						15	
Leu	Gln	Ser	Val	Ser	Leu	Glu	Val	Thr	Arg	Ala	Thr	Ala	Gly	Met	Val
			20					25					30		
Leu	Ala	Glu	Leu	Tyr	Val	Ser	Asp	Arg	Glu	Gly	Ser	Asp	Ala	Thr	Gly
		35					40					45			
Asp	Gly	Thr	Lys	Glu	Lys	Pro	Phe	Lys	Thr	Gly	Leu	Lys	Ala	Leu	Met
	50					55					60				
Thr	Val	Gly	Lys	Glu	Pro	Phe	Pro	Thr	Ile	Tyr	Val	Asp	Ser	Gln	Lys
	65				70					75					80
Glu	Asn	Glu	Arg	Trp	Asn	Val	Ile	Ser	Lys	Ser	Gln	Leu	Lys	Asn	Ile
				85					90					95	

4280

Lys Lys Met Trp His Arg Glu Gln Met Lys Ser Glu Ser Arg Glu Lys
 100 105 110
 Lys Glu Ala Glu Asp Ser Leu Arg Arg Glu Lys Asn Leu Glu Glu Ala
 115 120 125
 Lys Lys Ile Thr Ile Lys Asn Asp Pro Ser Leu Pro Glu Pro Lys Cys
 130 135 140
 Val Lys Ile Gly Ala Leu Glu Gly Tyr Arg Gly Gln Arg Val Lys Val
 145 150 155 160
 Phe Gly Trp Val His Arg Leu Arg Arg Gln Gly Lys Asn Leu Met Phe
 165 170 175
 Leu Val Leu Arg Asp Gly Thr Gly Tyr Leu Gln Cys Val Leu Ala Asp
 180 185 190
 Glu Leu Cys Gln Cys Tyr Asn Gly Val Leu Leu Ser Thr Glu Ser Ser
 195 200 205
 Val Ala Val Tyr Gly Met Leu Asn Leu Thr Pro Lys Gly Lys Gln Ala
 210 215 220
 Pro Gly Gly His Glu Leu Ser Cys Asp Phe Trp Glu Leu Ile Gly Leu
 225 230 235 240
 Ala Pro Ala Gly Gly Ala Asp Asn Leu Ile Asn Glu Glu Ser Asp Val
 245 250 255
 Asp Val Gln Leu Asn Asn Arg His Met Met Ile Arg Gly Glu Asn Met
 260 265 270
 Ser Lys Ile Leu Lys Ala Arg Ser Met Val Thr Arg Cys Phe Arg Asp
 275 280 285
 His Phe Phe Asp Arg Gly Tyr Tyr Glu Val Thr Pro Pro Thr Leu Val
 290 295 300
 Gln Thr Gln Val Glu Gly Gly Ala Thr Leu Phe Lys Leu Asp Tyr Phe
 305 310 315 320
 Gly Glu Glu Ala Phe Leu Thr Gln Ser Ser Gln Leu Tyr Leu Glu Thr
 325 330 335
 Cys Leu Pro Ala Leu Gly Asp Val Phe Cys Ile Ala Gln Ser Tyr Arg
 340 345 350
 Ala Glu Gln Ser Arg Thr Arg Arg His Leu Ala Glu Tyr Thr His Val
 355 360 365

4281

Glu Ala Glu Cys Pro Phe Leu Thr Phe Asp Asp Leu Leu Asn Arg Leu
 370 375 380
 Glu Asp Leu Val Cys Asp Val Val Asp Arg Ile Leu Lys Ser Pro Ala
 385 390 395 400
 Gly Ser Ile Val His Glu Leu Asn Pro Asn Phe Gln Pro Pro Lys Arg
 405 410 415
 Pro Phe Lys Arg Met Asn Tyr Ser Asp Ala Ile Val Trp Leu Lys Glu
 420 425 430
 His Asp Val Lys Lys Glu Asp Gly Thr Phe Tyr Glu Phe Gly Glu Asp
 435 440 445
 Ile Pro Glu Ala Pro Glu Arg Leu Met Thr Asp Thr Ile Asn Glu Pro
 450 455 460
 Ile Leu Leu Cys Arg Phe Pro Val Glu Ile Lys Ser Phe Tyr Met Gln
 465 470 475 480
 Arg Cys Pro Glu Asp Ser Arg Leu Thr Glu Ser Val Asp Val Leu Met
 485 490 495
 Pro Asn Val Gly Glu Ile Val Gly Gly Ser Met Arg Ile Phe Asp Ser
 500 505 510
 Glu Glu Ile Leu Ala Gly Tyr Lys Arg Glu Gly Ile Asp Pro Thr Pro
 515 520 525
 Tyr Tyr Trp Tyr Thr Asp Gln Arg Lys Tyr Gly Thr Cys Pro His Gly
 530 535 540
 Gly Tyr Gly Leu Gly Leu Glu Arg Phe Leu Thr Trp Ile Leu Asn Arg
 545 550 555 560
 Tyr His Ile Arg Asp Val Cys Leu Tyr Pro Arg Phe Val Gln Arg Cys
 565 570 575
 Thr Pro

<210> 4708

<211> 153

<212> PRT

<213> Homo sapiens

<220>

4282

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4708

Pro	Leu	Asn	Gly	Leu	Leu	Gly	Gly	Leu	Asn	Gly	Ala	Ala	Ala	Pro	Asn
1				5				10						15	

Pro	Ala	Ser	Leu	Ser	Gln	Ala	Gly	Gly	Ala	Pro	Thr	Leu	Gln	Leu	Pro
			20					25					30		

Gly	Cys	Leu	Asn	Ser	Leu	Thr	Glu	Gln	Gln	Arg	His	Leu	Leu	Gln	Gln
		35					40					45			

Gln	Glu	Gln	Gln	Leu	Gln	Gln	Leu	Gln	Gln	Leu	Leu	Ala	Ser	Pro	Gln
	50					55					60				

Leu	Thr	Pro	Glu	His	Gln	Thr	Val	Val	Tyr	Gln	Met	Ile	Gln	Gln	Ile
65					70					75					80

Gln	Gln	Lys	Arg	Glu	Leu	Gln	Arg	Leu	Gln	Met	Ala	Gly	Gly	Ser	Gln
				85					90					95	

Leu	Pro	Met	Ala	Ser	Leu	Leu	Ala	Xaa	Xaa	Ser	Thr	Pro	Leu	Leu	Ser
			100					105					110		

Ala	Gly	Thr	Pro	Gly	Leu	Leu	Pro	Thr	Xaa	Ser	Ala	Pro	Pro	Leu	Leu
		115					120					125			

Pro	Ala	Gly	Ala	Leu	Xaa	Ala	Pro	Ser	Leu	Gly	Asn	Asn	Thr	Ser	Leu
	130					135					140				

Met	Ala	Ala	Ala	Ala	Ala	Ala	Gln	Gln
145						150		

4283

<210> 4709

<211> 77

<212> PRT

<213> Homo sapiens

<400> 4709

Thr Cys Tyr Ile Leu Pro Lys Thr Ala Pro Leu Glu Cys Arg Ala Pro
 1 5 10 15

Leu Arg Ser Pro Ser Pro Leu Gly Arg Leu Gln Val Leu Pro Arg Ser
 20 25 30

Pro Leu His Val His Thr His Asn Ser Gly Lys Glu Val Leu Gly Leu
 35 40 45

Gln Val Gln Arg Ser Arg Ser Gly Thr Gly Pro Ala Cys Ser Gln Ala
 50 55 60

Gly Ser Gly Ala Val Gln Gly Gly Asn Trp Cys Ile Phe
 65 70 75

<210> 4710

<211> 172

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4710

Leu Glu Pro Leu Gly Leu Glu Ser Gly Arg Gly Leu Pro Ser Gln Pro

4284

1	5	10	15
Leu Ser Phe Leu Pro Arg Pro Gln Glu Leu Leu Gln Thr Gln Asp Phe	20	25	30
Ser Lys Phe Gln Ala Leu Lys Pro Lys Leu Leu Asp Thr Val Asp Asp	35	40	45
Met Leu Ala Asn Asp Ile Ala Arg Leu Met Val Met Val Arg Gln Glu	50	55	60
Glu Ser Leu Met Pro Xaa Gln Val Val Lys Gly Gly Ala Phe Xaa Gly	65	70	75
Thr Met Asn Gly Pro Phe Gly His Gly Tyr Gly Glu Gly Ala Gly Glu	85	90	95
Gly Ile Asp Asp Val Glu Trp Val Val Gly Lys Asp Lys Pro Thr Tyr	100	105	110
Asp Glu Ile Phe Tyr Thr Leu Ser Pro Val Asn Gly Lys Ile Thr Gly	115	120	125
Ala Asn Ala Lys Xaa Glu Met Val Lys Val Gln Ala Ser Gln His Arg	130	135	140
Ala Lys Gly Lys Ile Trp Lys Leu Ala Asp Trp Thr Arg Thr Gly Leu	145	150	155
Leu Asp Asp Lys Glu Xaa Ala Leu Gly Asn His Leu	165	170	

<210> 4711

<211> 193

<212> PRT

<213> Homo sapiens

<400> 4711

Leu Gln Ala Arg Leu Leu Ser Ala Lys Gly Glu Ile Trp Met Ala Ser	1	5	10	15
Thr Ser Tyr Asp Tyr Cys Arg Val Pro Met Glu Asp Gly Asp Lys Arg	20	25	30	
Cys Lys Leu Leu Leu Gly Ile Gly Ile Leu Val Leu Leu Ile Ile Val	35	40	45	
Ile Leu Gly Val Pro Leu Ile Ile Phe Thr Ile Lys Ala Asn Ser Glu	50	55	60	

4285

Ala Cys Arg Asp Gly Leu Arg Ala Val Met Glu Cys Arg Asn Val Thr
 65 70 75 80
 His Leu Leu Gln Gln Glu Leu Thr Glu Ala Gln Lys Gly Phe Gln Asp
 85 90 95
 Val Glu Ala Gln Ala Ala Thr Cys Asn His Thr Val Met Ala Leu Met
 100 105 110
 Ala Ser Leu Asp Ala Glu Lys Ala Gln Gly Gln Lys Lys Val Glu Glu
 115 120 125
 Leu Glu Gly Glu Ile Thr Thr Leu Asn His Lys Leu Gln Asp Ala Ser
 130 135 140
 Ala Glu Val Glu Arg Leu Arg Arg Glu Asn Gln Val Leu Ser Val Arg
 145 150 155 160
 Ile Ala Asp Lys Lys Tyr Tyr Pro Ser Ser Gln Asp Ser Ser Ser Ala
 165 170 175
 Ala Ala Pro Gln Leu Leu Ile Val Leu Leu Gly Leu Ser Ala Leu Leu
 180 185 190
 Gln

<210> 4712
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 4712
 Leu Glu Gly Ala Leu Thr Arg Thr Glu His Trp Ser Asn Asn Leu Ala
 1 5 10 15
 Thr Phe Pro Trp Lys Arg Ser Ala Arg Ser Gln Ile Arg Arg Asp Ala
 20 25 30
 Pro Ala Gly Lys Gly Gly Gly Cys Lys Thr Arg Ala Val Ser Leu Gly
 35 40 45
 Arg Lys Ala Val Val Ser Pro Gln Gly Val Gln Leu Cys Gly Thr His
 50 55 60
 Thr Tyr Arg Ser Lys
 65

4286

<210> 4713

<211> 205

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4713

Val	Lys	Thr	Pro	Pro	Arg	Val	Leu	Thr	Leu	Ser	Glu	Arg	Pro	Leu	Asp
1				5					10					15	

Phe	Leu	Asp	Leu	Glu	Arg	Pro	Pro	Thr	Thr	Pro	Gln	Asn	Glu	Glu	Ile
			20					25					30		

Arg	Ala	Val	Gly	Arg	Leu	Lys	Arg	Glu	Arg	Ser	Met	Ser	Glu	Asn	Ala
		35					40					45			

Val	Arg	Gln	Asn	Gly	Gln	Leu	Val	Arg	Asn	Asp	Ser	Leu	Val	Thr	Pro
	50					55					60				

Ser	Pro	Gln	Gln	Ala	Arg	Val	Cys	Pro	Pro	His	Met	Leu	Pro	Glu	Asp
65					70					75					80

Gly	Ala	Asn	Leu	Ser	Ser	Ala	Arg	Gly	Ile	Leu	Ser	Leu	Ile	Gln	Ser
				85					90					95	

Ser	Thr	Arg	Arg	Ala	Tyr	Gln	Gln	Ile	Leu	Asp	Val	Leu	Asp	Glu	Asn
		100						105				110			

Arg	Arg	Pro	Val	Leu	Arg	Gly	Gly	Ser	Xaa	Ala	Ala	Thr	Ser	Asn	Pro
		115					120					125			

His	His	Asp	Asn	Val	Arg	Tyr	Gly	Ile	Ser	Asn	Ile	Asp	Thr	Thr	Ile
	130					135					140				

Glu	Gly	Thr	Ser	Asp	Asp	Leu	Thr	Val	Val	Asp	Ala	Ala	Ser	Leu	Arg
145					150					155				160	

Arg	Gln	Ile	Ile	Lys	Leu	Asn	Arg	Arg	Leu	Gln	Leu	Leu	Glu	Glu	Glu
				165					170					175	

Asn	Lys	Glu	Arg	Ala	Lys	Arg	Glu	Met	Val	Met	Tyr	Ser	Ile	Thr	Val
			180					185					190		

Ala	Phe	Trp	Leu	Leu	Asn	Ser	Trp	Leu	Trp	Phe	Arg	Arg
	195						200					205

4287

<210> 4714

<211> 408

<212> PRT

<213> Homo sapiens

<400> 4714

```

Ile Pro Leu Pro Phe Gly Lys Pro Gln Pro Gln Ser Arg Arg Arg Pro
 1              5              10              15

Leu Arg Pro Pro Ser Ala Ser Ser Ala Ser Arg Pro Ala Arg Gly Ser
      20              25              30

Leu Arg Arg Ala Met Ala Thr Ser Pro Gln Lys Ser Pro Ser Val Pro
      35              40              45

Lys Ser Pro Thr Pro Lys Ser Pro Pro Ser Arg Lys Lys Asp Asp Ser
      50              55              60

Phe Leu Gly Lys Leu Gly Gly Thr Leu Ala Arg Arg Lys Lys Ala Lys
      65              70              75              80

Glu Val Ser Glu Leu Gln Glu Glu Gly Met Asn Ala Ile Asn Leu Pro
      85              90              95

Leu Ser Pro Ile Pro Phe Glu Leu Asp Pro Glu Asp Thr Met Leu Glu
      100             105             110

Glu Asn Glu Val Arg Thr Met Val Asp Pro Asn Ser Arg Ser Thr Pro
      115             120             125

Lys Leu Gln Glu Leu Met Lys Val Leu Ile Asp Trp Ile Asn Asp Val
      130             135             140

Leu Val Gly Glu Arg Ile Ile Val Lys Asp Leu Ala Glu Asp Leu Tyr
      145             150             155             160

Asp Gly Gln Val Leu Gln Lys Leu Phe Glu Lys Leu Glu Ser Glu Lys
      165             170             175

Leu Asn Val Ala Glu Val Thr Gln Ser Glu Ile Ala Gln Lys Gln Lys
      180             185             190

Leu Gln Thr Val Leu Glu Lys Ile Asn Glu Thr Leu Lys Leu Pro Pro
      195             200             205

Arg Ser Ile Lys Trp Asn Val Asp Ser Val His Ala Lys Ser Leu Val
      210             215             220

```

4288

Ala Ile Leu His Leu Leu Val Ala Leu Ser Gln Tyr Phe Arg Ala Pro
 225 230 235 240
 Ile Arg Leu Pro Asp His Val Ser Ile Gln Val Val Val Val Gln Lys
 245 250 255
 Arg Glu Gly Ile Leu Gln Ser Arg Gln Ile Gln Glu Glu Ile Thr Gly
 260 265 270
 Asn Thr Glu Ala Leu Ser Gly Arg His Glu Arg Asp Ala Phe Asp Thr
 275 280 285
 Leu Phe Asp His Ala Pro Asp Lys Leu Asn Val Val Lys Lys Thr Leu
 290 295 300
 Ile Thr Phe Val Asn Lys His Leu Asn Lys Leu Asn Leu Glu Val Thr
 305 310 315 320
 Glu Leu Glu Thr Gln Phe Ala Asp Gly Val Tyr Leu Val Leu Leu Met
 325 330 335
 Gly Leu Leu Glu Gly Tyr Phe Val Pro Leu His Ser Phe Phe Leu Thr
 340 345 350
 Pro Asp Ser Phe Glu Gln Lys Val Leu Asn Val Ser Phe Ala Phe Glu
 355 360 365
 Leu Met Gln Asp Gly Gly Leu Glu Lys Pro Lys Pro Arg Pro Glu Asp
 370 375 380
 Ile Val Asn Cys Asp Leu Lys Ser Thr Leu Arg Val Leu Tyr Asn Leu
 385 390 395 400
 Phe Thr Lys Tyr Arg Asn Val Glu
 405

<210> 4715

<211> 314

<212> PRT

<213> Homo sapiens

<400> 4715

Asp Pro Tyr Ser Gln Ser Ala Thr Ala Phe Asn Glu Met Ile Gln Glu
 1 5 10 15
 Asn Gly Tyr Asn Phe Asp Arg Ser Ser Ser Thr Phe Ser Gly Ile Lys
 20 25 30
 Glu Leu Ala Arg Arg Phe Ala Leu Thr Phe Gly Leu Asp Gln Leu Lys

4289

35	40	45																	
Thr	Arg	Glu	Ala	Ile	Ala	Met	Leu	His	Lys	Asp	Gly	Ile	Glu	Phe	Ala				
50						55					60								
Phe	Lys	Glu	Pro	Asn	Pro	Gln	Gly	Glu	Ser	His	Pro	Pro	Leu	Asn	Leu				
65					70					75					80				
Ala	Phe	Leu	Asp	Ile	Leu	Ser	Glu	Phe	Ser	Ser	Lys	Leu	Leu	Arg	Gln				
				85					90					95					
Asp	Lys	Arg	Thr	Val	Tyr	Val	Tyr	Leu	Glu	Lys	Phe	Met	Thr	Phe	Gln				
			100					105					110						
Met	Ser	Leu	Arg	Arg	Glu	Asp	Val	Trp	Leu	Pro	Leu	Met	Ser	Tyr	Arg				
			115				120					125							
Asn	Ser	Leu	Leu	Ala	Gly	Gly	Asp	Asp	Asp	Thr	Met	Ser	Val	Ile	Ser				
130						135					140								
Gly	Ile	Ser	Ser	Arg	Gly	Ser	Thr	Val	Arg	Ser	Lys	Lys	Ser	Lys	Pro				
145					150					155					160				
Ser	Thr	Gly	Lys	Arg	Lys	Val	Val	Glu	Gly	Met	Gln	Leu	Ser	Leu	Thr				
				165					170					175					
Glu	Glu	Ser	Ser	Ser	Ser	Asp	Ser	Met	Trp	Leu	Ser	Arg	Glu	Gln	Thr				
			180					185					190						
Leu	His	Thr	Pro	Val	Met	Met	Gln	Thr	Pro	Gln	Leu	Thr	Ser	Thr	Ile				
		195					200					205							
Met	Arg	Glu	Pro	Lys	Arg	Leu	Arg	Pro	Glu	Asp	Ser	Phe	Met	Ser	Val				
		210				215					220								
Tyr	Pro	Met	Gln	Thr	Glu	His	His	Gln	Thr	Pro	Leu	Asp	Tyr	Asn	Arg				
225					230					235					240				
Arg	Gly	Thr	Ser	Leu	Met	Glu	Asp	Asp	Glu	Glu	Pro	Ile	Val	Glu	Asp				
				245					250					255					
Val	Met	Met	Ser	Ser	Glu	Gly	Arg	Ile	Glu	Asp	Leu	Asn	Glu	Gly	Met				
			260					265					270						
Asp	Phe	Asp	Thr	Met	Asp	Ile	Asp	Leu	Pro	Pro	Ser	Lys	Asn	Arg	Arg				
		275					280					285							
Glu	Arg	Thr	Glu	Leu	Lys	Pro	Asp	Phe	Phe	Asp	Pro	Ala	Ser	Ile	Met				
		290				295					300								
Asp	Glu	Ser	Val	Leu	Gly	Val	Ser	Met	Phe										

4290

305

310

<210> 4716

<211> 287

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4716

Arg	Pro	Cys	Pro	Glu	Glu	Ala	Glu	Ile	Gly	Ile	Ala	Met	Gly	Ser	Gly
1				5					10					15	

Thr	Ala	Val	Ala	Lys	Thr	Ala	Ser	Glu	Met	Val	Leu	Ala	Asp	Asp	Asn
			20					25					30		

Phe	Ser	Thr	Ile	Val	Ala	Ala	Val	Glu	Glu	Gly	Arg	Ala	Ile	Tyr	Asn
		35					40					45			

Asn	Met	Lys	Gln	Phe	Ile	Arg	Tyr	Leu	Ile	Ser	Ser	Asn	Val	Gly	Glu
	50					55					60				

Val	Val	Cys	Ile	Phe	Leu	Thr	Ala	Ala	Leu	Gly	Leu	Pro	Glu	Ala	Leu
65					70					75					80

Ile	Pro	Val	Gln	Leu	Leu	Trp	Val	Asn	Leu	Val	Thr	Asp	Gly	Leu	Pro
			85						90					95	

Ala	Thr	Ala	Leu	Gly	Phe	Asn	Pro	Pro	Asp	Leu	Asp	Ile	Met	Asp	Arg
			100					105					110		

Pro	Pro	Arg	Ser	Pro	Lys	Glu	Pro	Leu	Ile	Ser	Gly	Trp	Leu	Phe	Phe
		115					120					125			

Arg	Tyr	Met	Ala	Ile	Gly	Gly	Tyr	Val	Gly	Ala	Ala	Thr	Val	Gly	Ala
	130					135					140				

Ala	Ala	Trp	Trp	Phe	Leu	Tyr	Ala	Glu	Asp	Gly	Pro	His	Val	Asn	Tyr
145					150					155					160

Ser	Gln	Leu	Thr	His	Phe	Met	Gln	Cys	Thr	Glu	Asp	Asn	Thr	His	Phe
				165					170					175	

Glu	Gly	Ile	Xaa	Cys	Glu	Val	Phe	Glu	Ala	Pro	Glu	Pro	Met	Thr	Met
			180					185					190		

4291

Ala Leu Ser Val Leu Val Thr Ile Glu Met Cys Asn Ala Leu Asn Ser
 195 200 205

Leu Ser Glu Asn Gln Ser Leu Leu Arg Met Pro Pro Trp Val Asn Ile
 210 215 220

Trp Leu Leu Gly Ser Ile Cys Leu Ser Met Ser Leu His Phe Leu Ile
 225 230 235 240

Leu Tyr Val Asp Pro Leu Pro Met Ile Phe Lys Leu Arg Ala Leu Asp
 245 250 255

Leu Thr Gln Trp Leu Met Val Leu Lys Ile Ser Leu Pro Val Ile Gly
 260 265 270

Leu Asp Glu Ile Leu Lys Phe Val Ala Arg Asn Tyr Leu Glu Gly
 275 280 285

<210> 4717
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 4717
 Gln Arg Pro Cys Gly Leu Gln Gly Pro Lys Tyr Leu Leu Ser Gly Leu
 1 5 10 15

Leu Leu Lys Lys Phe Ser Gln Ala Trp Trp Trp Ala Pro Val Ile Pro
 20 25 30

Ala Thr Arg Glu Ser Glu Ala Gly Glu Ser Leu Glu Pro Gly Arg
 35 40 45

<210> 4718
 <211> 436
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (382)
 <223> Xaa equals any of the naturally occurring L-amino acids

4292

<400> 4718

Ala	Xaa	Asp	Pro	Ser	Arg	Val	Met	Asp	Gln	His	Lys	Leu	Thr	Arg	Asp
1				5					10					15	
Gln	Trp	Glu	Asp	Arg	Ile	Gln	Val	Trp	His	Ala	Glu	His	Arg	Gly	Met
			20					25					30		
Leu	Lys	Asp	Asn	Ala	Met	Leu	Glu	Tyr	Leu	Lys	Ile	Ala	Gln	Asp	Leu
		35					40					45			
Glu	Met	Tyr	Gly	Ile	Asn	Tyr	Phe	Glu	Ile	Lys	Asn	Lys	Lys	Gly	Thr
	50					55					60				
Asp	Leu	Trp	Leu	Gly	Val	Asp	Ala	Leu	Gly	Leu	Asn	Ile	Tyr	Glu	Lys
	65				70					75					80
Asp	Asp	Lys	Leu	Thr	Pro	Lys	Ile	Gly	Phe	Pro	Trp	Ser	Glu	Ile	Arg
				85					90					95	
Asn	Ile	Ser	Phe	Asn	Asp	Lys	Lys	Phe	Val	Ile	Lys	Pro	Ile	Asp	Lys
			100					105					110		
Lys	Ala	Pro	Asp	Phe	Val	Phe	Tyr	Ala	Pro	Arg	Leu	Arg	Ile	Asn	Lys
		115					120					125			
Arg	Ile	Leu	Gln	Leu	Cys	Met	Gly	Asn	His	Glu	Leu	Tyr	Met	Arg	Arg
	130					135					140				
Arg	Lys	Pro	Asp	Thr	Ile	Glu	Val	Gln	Gln	Met	Lys	Ala	Gln	Ala	Arg
145					150					155					160
Glu	Glu	Lys	His	Gln	Lys	Gln	Leu	Glu	Arg	Gln	Gln	Leu	Glu	Thr	Glu
				165					170					175	
Lys	Lys	Arg	Arg	Glu	Thr	Val	Glu	Arg	Glu	Lys	Glu	Gln	Met	Met	Arg
			180					185					190		
Glu	Lys	Glu	Glu	Leu	Met	Leu	Arg	Leu	Gln	Asp	Tyr	Glu	Glu	Lys	Thr
		195					200					205			
Lys	Lys	Ala	Glu	Arg	Glu	Leu	Ser	Glu	Gln	Ile	Gln	Arg	Ala	Leu	Gln
		210				215					220				
Leu	Glu	Glu	Glu	Arg	Lys	Arg	Ala	Gln	Glu	Glu	Ala	Glu	Arg	Leu	Glu
225					230				235					240	
Ala	Asp	Arg	Met	Ala	Ala	Leu	Arg	Ala	Lys	Glu	Glu	Leu	Glu	Arg	Gln
				245				250						255	
Ala	Val	Asp	Gln	Ile	Lys	Ser	Gln	Glu	Gln	Leu	Ala	Ala	Glu	Leu	Ala

4293

260	265	270
Glu Tyr Thr Ala Lys Ile Ala Leu Leu Glu Glu Ala Arg Arg Arg Lys		
275	280	285
Glu Asp Glu Val Glu Glu Trp Gln His Arg Ala Lys Glu Ala Gln Asp		
290	295	300
Asp Leu Val Lys Thr Lys Glu Glu Leu His Leu Val Met Thr Ala Pro		
305	310	315
Pro Pro Pro Pro Pro Pro Val Tyr Glu Pro Val Ser Tyr His Val Gln		
325	330	335
Glu Ser Leu Gln Asp Glu Gly Ala Glu Pro Thr Gly Tyr Ser Ala Glu		
340	345	350
Leu Ser Ser Glu Gly Ile Arg Asp Asp Arg Asn Glu Glu Lys Arg Ile		
355	360	365
Thr Glu Ala Glu Lys Asn Glu Arg Val Gln Arg Gln Leu Xaa Thr Leu		
370	375	380
Ser Ser Glu Leu Ser Gln Ala Arg Asp Glu Asn Lys Arg Thr His Asn		
385	390	395
Asp Ile Ile His Asn Glu Asn Met Arg Gln Gly Arg Asp Lys Tyr Lys		
405	410	415
Thr Leu Arg Gln Ile Arg Gln Gly Asn Thr Lys Gln Arg Ile Asp Glu		
420	425	430
Phe Glu Ala Leu		
435		

<210> 4719

<211> 173

<212> PRT

<213> Homo sapiens

<400> 4719

Leu Gln Val Val Gln Ala Asp Ile Ala Ser Ile Asp Ser Asp Ala Val
1 5 10 15
Val His Pro Thr Asn Thr Asp Phe Tyr Ile Gly Gly Glu Val Gly Asn
20 25 30
Thr Leu Glu Lys Lys Gly Gly Lys Glu Phe Val Glu Ala Val Leu Glu
35 40 45

4294

Leu Arg Lys Lys Asn Gly Pro Leu Glu Val Ala Gly Ala Ala Val Ser
 50 55 60
 Ala Gly His Gly Leu Pro Ala Lys Phe Val Ile His Cys Asn Ser Pro
 65 70 75 80
 Val Trp Gly Ala Asp Lys Cys Glu Glu Leu Leu Glu Lys Thr Val Lys
 85 90 95
 Asn Cys Leu Ala Leu Ala Asp Asp Lys Lys Leu Lys Ser Ile Ala Phe
 100 105 110
 Pro Ser Ile Gly Ser Gly Arg Asn Gly Phe Pro Lys Gln Thr Ala Ala
 115 120 125
 Gln Leu Ile Leu Lys Ala Ile Ser Ser Tyr Phe Val Ser Thr Met Ser
 130 135 140
 Ser Ser Ile Lys Thr Val Tyr Phe Val Leu Phe Asp Ser Glu Ser Ile
 145 150 155 160
 Gly Ile Tyr Val Gln Glu Met Ala Lys Leu Asp Ala Asn
 165 170

<210> 4720

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4720

Arg Gly Asp Pro Phe Pro Leu Val Gly Phe Gly Ser Cys Val Ser Ser
 1 5 10 15

4295

Leu Cys Lys Thr Leu His Gln Gly Tyr Pro Gly His Glu Gly Val Pro
 20 25 30
 Pro Val Pro Val Tyr Phe Cys Thr Arg Thr Ser Asn Lys Thr Gly Arg
 35 40 45
 Cys Leu Gly Asn Cys His Gly Val Arg Glu Arg Asp Ala Phe Tyr Ser
 50 55 60
 Xaa Gly Val Asp Asp Xaa Thr Xaa Val Ile Asn Cys Ile Cys Trp Glu
 65 70 75 80
 Lys Val Glu Tyr

<210> 4721
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 4721
 Arg Gly Gly Gly Cys Ser Glu Pro Arg Ser Arg His Cys Thr Pro Ala
 1 5 10 15
 Trp Gly Thr Arg Val Arg Leu Ser Leu Lys Lys Lys Lys Lys Glu Lys
 20 25 30
 Lys Ile Arg Asp Ile Val His Ile Pro Leu Leu Cys Leu His Arg Cys
 35 40 45
 Pro

<210> 4722
 <211> 267
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (88)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (90)
 <223> Xaa equals any of the naturally occurring L-amino acids

4296

<220>
 <221> SITE
 <222> (95)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (140)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (162)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (165)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (173)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4722
 Asn Asn Leu Asn Ser Val Leu Ala Glu Arg Leu Glu Lys Trp Leu Gln
 1 5 10 15
 Leu Met Leu Met Trp His Pro Arg Gln Arg Gly Thr Asp Pro Thr Tyr
 20 25 30
 Gly Pro Asn Gly Cys Phe Lys Ala Leu Asp Asp Ile Leu Asn Leu Lys
 35 40 45
 Leu Val His Ile Leu Asn Met Val Thr Gly Thr Ile His Thr Tyr Pro
 50 55 60
 Val Thr Glu Asp Glu Ser Leu Gln Ser Leu Lys Ala Arg Ile Gln Gln
 65 70 75 80
 Asp Thr Gly Ile Pro Glu Glu Xaa Gln Xaa Leu Leu Gln Glu Xaa Gly
 85 90 95
 Leu Ala Leu Ile Pro Asp Lys Pro Ala Thr Gln Cys Ile Ser Asp Gly
 100 105 110
 Lys Leu Asn Glu Gly His Thr Leu Asp Met Asp Leu Val Phe Leu Phe
 115 120 125

4297

Asp Asn Ser Lys Ile Thr Tyr Glu Thr Gln Ile Xaa Pro Arg Pro Gln
 130 135 140
 Pro Glu Ser Val Ser Cys Ile Leu Gln Glu Pro Lys Arg Asn Leu Ala
 145 150 155 160
 Phe Xaa Gln Leu Xaa Lys Val Trp Gly Gln Val Trp Xaa Ser Ile Gln
 165 170 175
 Thr Leu Lys Glu Asp Cys Asn Arg Leu Gln Gln Gly Gln Arg Ala Ala
 180 185 190
 Met Met Asn Leu Leu Arg Asn Asn Ser Cys Leu Ser Lys Met Lys Asn
 195 200 205
 Ser Met Ala Ser Met Ser Gln Gln Leu Lys Ala Lys Leu Asp Phe Phe
 210 215 220
 Lys Thr Ser Ile Gln Ile Asp Leu Glu Lys Tyr Ser Glu Gln Thr Glu
 225 230 235 240
 Phe Gly Ile Thr Ser Asp Lys Leu Leu Leu Ala Trp Arg Glu Met Glu
 245 250 255
 Gln Ala Val Glu Leu Cys Gly Arg Glu Asn Glu
 260 265

<210> 4723
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 4723
 His Phe Leu Thr Cys Gly Arg Glu Lys Leu Pro Asn Phe Phe Phe Leu
 1 5 10 15
 Leu Leu Asn Cys Asn Ile Val Glu Asp Phe Phe Phe Leu Phe Ser Leu
 20 25 30
 Ile Gly Ala Phe Cys Thr Gly Phe Val Cys Val Cys Val Cys Val Cys
 35 40 45
 Ala Arg Ala Cys Val Leu Ile Cys Phe Leu Ile His Ser Tyr Pro Leu
 50 55 60
 Cys Leu Ser Tyr His Cys Leu Pro Gly Tyr Leu Lys Gln Val His Thr
 65 70 75 80
 Phe Glu Lys Lys Lys Lys Cys Cys Leu Lys Asn Val Phe Ser Cys Cys

4298

85

90

95

Ser Lys Tyr Phe Ala
100

<210> 4724

<211> 163

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4724

Arg Ser Pro Asp Ser Ser Gln Val Leu Gly Ala Arg Asp Ala Asp Ser
1 5 10 15

Ser Ser Gly Cys Phe Ser Arg Cys Ser Trp Ala Leu Ala Ser Asp Gly
20 25 30

Ala Leu Arg Gly Cys Phe Pro Gly Ala Arg Phe Cys Ser Thr Thr Ser
35 40 45

Xaa Glu Gly Asn Thr Thr Phe Thr Gly Ser Ala Ala Ala Pro Gly Pro
50 55 60

Ser Ala Ser Arg Gln Gly Pro Lys Pro Gly Pro Pro Ala Ala Thr Val
65 70 75 80

Ala Arg Gln Thr Ser Arg Val Ser Pro Ala Pro Pro Cys Ser Leu Arg
85 90 95

Pro Gly Leu Arg His Glu Ser Ala Pro Ser Gly Ile Gly Asp Val Thr
100 105 110

Ala Arg Gly Ala Leu Arg Gly Leu Gly Cys Thr Val Arg Val Thr Ala
115 120 125

Ala Cys Ala Gly Asn His Gly Cys Ser Gln Met Leu Ala Leu Arg Asn
130 135 140

Ser Lys Trp Glu Thr Ala Ser Arg Arg Gly Val Leu Thr Gly Arg Leu
145 150 155 160

Gly Ile Lys

4299

<210> 4725

<211> 91

<212> PRT

<213> Homo sapiens

<400> 4725

Glu Ser Leu Trp Ala Phe Cys Leu Ser Leu Leu Glu Arg Leu Ala Cys
 1 5 10 15

Cys Ser Leu Leu Tyr Pro Glu Val Cys Leu Trp Asp Phe Ser Pro Val
 20 25 30

Ala Val Glu Thr Arg Arg Pro Thr Leu Phe Glu Thr Gln Met Leu Leu
 35 40 45

Ser Leu Ala Ser Pro Ser Leu Ser Ser Pro Asn Glu Pro Thr Phe Cys
 50 55 60

Thr Ser Thr Arg Met Pro Gly Arg Leu Gly Pro Gln Arg Leu Leu Phe
 65 70 75 80

Gln Asn Leu Trp Lys Pro Arg Leu Asn Val Pro
 85 90

<210> 4726

<211> 72

<212> PRT

<213> Homo sapiens

<400> 4726

Ile Ser Ser His Leu Val Ser Lys Leu Leu Leu Thr Met Val Val Leu
 1 5 10 15

Leu Glu Gln Ser Phe Gln Ala Pro Leu Arg Thr Ile Phe Asn Ser Asp
 20 25 30

Thr Lys Gly Lys Thr Gly Cys Tyr Phe Cys Phe Val Val Gln Leu Val
 35 40 45

Leu Tyr Ser His Met Leu Tyr Ile Leu Asn Ser Pro Val Leu Phe Arg
 50 55 60

Leu Val Asn Arg Thr Ile Ser Met
 65 70

4300

<210> 4727

<211> 251

<212> PRT

<213> Homo sapiens

<400> 4727

Gly	Gly	Leu	Ala	Trp	Arg	Ala	Leu	Arg	Thr	Ser	Gly	Thr	Leu	Leu	Arg	1	5	10	15
Val	Glu	Arg	Leu	Leu	Leu	Glu	Asp	Tyr	Cys	Pro	Glu	Glu	Lys	Met	Phe	20	25	30	
Gly	Phe	His	Lys	Pro	Lys	Met	Tyr	Arg	Ser	Ile	Glu	Gly	Cys	Cys	Ile	35	40	45	
Cys	Arg	Ala	Lys	Ser	Ser	Ser	Ser	Arg	Phe	Thr	Asp	Ser	Lys	Arg	Tyr	50	55	60	
Glu	Lys	Asp	Phe	Gln	Ser	Cys	Phe	Gly	Leu	His	Glu	Thr	Arg	Ser	Gly	65	70	75	80
Asp	Ile	Cys	Asn	Ala	Cys	Val	Leu	Leu	Val	Lys	Arg	Trp	Lys	Lys	Leu	85	90	95	
Pro	Ala	Gly	Ser	Lys	Lys	Asn	Trp	Asn	His	Val	Val	Asp	Ala	Arg	Ala	100	105	110	
Gly	Pro	Ser	Leu	Lys	Thr	Thr	Leu	Lys	Pro	Lys	Lys	Val	Lys	Thr	Leu	115	120	125	
Ser	Gly	Asn	Arg	Ile	Lys	Ser	Asn	Gln	Ile	Ser	Lys	Leu	Gln	Lys	Glu	130	135	140	
Phe	Lys	Arg	His	Asn	Ser	Asp	Ala	His	Ser	Thr	Thr	Ser	Ser	Ala	Ser	145	150	155	160
Pro	Ala	Gln	Ser	Pro	Cys	Tyr	Ser	Asn	Gln	Ser	Asp	Asp	Gly	Ser	Asp	165	170	175	
Thr	Glu	Met	Ala	Ser	Gly	Ser	Asn	Arg	Thr	Pro	Val	Phe	Ser	Phe	Leu	180	185	190	
Asp	Leu	Thr	Tyr	Trp	Lys	Arg	Gln	Lys	Ile	Cys	Cys	Gly	Ile	Ile	Tyr	195	200	205	
Lys	Gly	Arg	Phe	Gly	Glu	Val	Leu	Ile	Asp	Thr	His	Leu	Phe	Lys	Pro	210	215	220	
Cys	Cys	Ser	Asn	Lys	Lys	Ala	Ala	Ala	Glu	Lys	Pro	Glu	Glu	Gln	Gly	225	230	235	240

Pro Glu Pro Leu Pro Ile Ser Thr Gln Glu Trp
245 250

<213> Homo sapiens

Cys Cys Asp Ala Cys Phe Gln Asp Pro Tyr Gly Val Ala Val Gly Gly
1 5 10 15

Thr Val Gly His Cys Leu Cys Thr Gly Leu Ala Val Ile Gly Gly Arg
20 25 30

Met Ile Ala Gln Lys Ile Ser Val Arg Thr Gly Lys Ser
35 40 45

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Leu Pro Ala Gly Met Ser Ala Lys Met Leu Gly Gly Val Phe Lys Ile
1 5 10 15

Asp Trp Ile Cys Arg Arg Glu Leu Pro Phe Thr Lys Ser Ala His Leu
20 25 30

Thr Asn Pro Trp Asn Glu His Lys Pro Val Lys Ile Gly Arg Asp Gly
35 40 45

4302

Gln Glu Ile Glu Leu Glu Cys Gly Thr Gln Leu Cys Leu Leu Phe Pro
 50 55 60
 Pro Asp Glu Ser Ile Asp Leu Tyr Gln Val Ile His Lys Met Arg His
 65 70 75 80
 Lys Arg Arg Met His Ser Gln Pro Arg Ser Arg Gly Arg Pro Ser Arg
 85 90 95
 Glu Asn Gln Ser Xaa Xaa Xaa Glu Gly Val Asp Gln Lys Ile Met Ile
 100 105 110
 Phe Ile Thr Ala Glu Arg Asn Gln Gly Leu Thr Ile Pro Leu Ser Phe
 115 120 125
 Thr Arg Asp Gln Gly Ile
 130

<210> 4730

<211> 193

<212> PRT

<213> Homo sapiens

<400> 4730

Leu Val Pro Pro Lys Ser Trp Thr Ile Gln Val Gly Leu Val Ser Leu
 1 5 10 15
 Leu Asp Asn Pro Ala Pro Ser His Leu Val Glu Lys Ile Val Tyr His
 20 25 30
 Ser Lys Tyr Lys Pro Lys Arg Leu Gly Asn Asp Ile Ala Leu Met Lys
 35 40 45
 Leu Ala Gly Pro Leu Thr Phe Asn Glu Met Ile Gln Pro Val Cys Leu
 50 55 60
 Pro Asn Ser Glu Glu Asn Phe Pro Asp Gly Lys Val Cys Trp Thr Ser
 65 70 75 80
 Gly Trp Gly Ala Thr Glu Asp Gly Ala Gly Asp Ala Ser Pro Val Leu
 85 90 95
 Asn His Ala Ala Val Pro Leu Ile Ser Asn Lys Ile Cys Asn His Arg
 100 105 110
 Asp Val Tyr Gly Gly Ile Ile Ser Pro Ser Met Leu Cys Ala Gly Tyr
 115 120 125

4303

Leu Thr Gly Gly Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu
 130 135 140

Val Cys Gln Glu Arg Arg Leu Trp Lys Leu Val Gly Ala Thr Ser Phe
 145 150 155 160

Gly Ile Gly Cys Ala Glu Val Asn Lys Pro Gly Val Tyr Thr Arg Val
 165 170 175

Thr Ser Phe Leu Asp Trp Ile His Glu Gln Met Glu Arg Asp Leu Lys
 180 185 190

Thr

<210> 4731

<211> 426

<212> PRT

<213> Homo sapiens

<400> 4731

Cys His Arg Gln Arg Arg Cys Leu Leu Pro Ser Asp Cys Glu Lys Thr
 1 5 10 15

Ile Thr Gly Pro Arg Asn Cys His Ala Asn Arg Leu Pro Cys Ile Tyr
 20 25 30

Leu Val Asp Ser Gly Gly Ala Tyr Leu Pro Arg Gln Ala Asp Val Phe
 35 40 45

Pro Asp Arg Asp His Phe Gly Arg Thr Phe Tyr Asn Gln Ala Ile Met
 50 55 60

Ser Ser Lys Asn Ile Ala Gln Ile Ala Val Val Met Gly Ser Cys Thr
 65 70 75 80

Ala Gly Gly Ala Tyr Val Pro Ala Met Ala Asp Glu Asn Ile Ile Val
 85 90 95

Arg Lys Gln Gly Thr Ile Phe Leu Ala Gly Pro Pro Leu Val Lys Ala
 100 105 110

Ala Thr Gly Glu Glu Val Ser Ala Glu Asp Leu Gly Gly Ala Asp Leu
 115 120 125

His Cys Arg Lys Ser Gly Val Ser Asp His Trp Ala Leu Asp Asp His
 130 135 140

His Ala Leu His Leu Thr Arg Lys Val Val Arg Asn Leu Asn Tyr Gln

4304

145		150		155		160
Lys Lys Leu Asp Val Thr Ile Glu Pro Ser Glu Glu Pro Leu Phe Pro						
	165		170		175	
Ala Asp Glu Leu Tyr Gly Ile Val Gly Ala Asn Leu Lys Arg Ser Phe						
	180		185		190	
Asp Val Arg Glu Val Ile Ala Arg Ile Val Asp Gly Ser Arg Phe Thr						
	195		200		205	
Glu Phe Lys Ala Phe Tyr Gly Asp Thr Leu Val Thr Gly Phe Ala Arg						
	210		215		220	
Ile Phe Gly Tyr Pro Val Gly Ile Val Gly Asn Asn Gly Val Leu Phe						
	225		230		235	240
Ser Glu Ser Ala Lys Lys Gly Thr His Phe Val Gln Leu Cys Cys Gln						
	245		250		255	
Arg Asn Ile Pro Leu Leu Phe Leu Gln Asn Ile Thr Gly Phe Met Val						
	260		265		270	
Gly Arg Glu Tyr Glu Ala Glu Gly Ile Ala Lys Asp Gly Ala Lys Met						
	275		280		285	
Val Ala Ala Val Ala Cys Ala Gln Val Pro Lys Ile Thr Leu Ile Ile						
	290		295		300	
Gly Gly Ser Tyr Gly Ala Gly Asn Tyr Gly Met Cys Gly Arg Ala Tyr						
	305		310		315	320
Ser Pro Arg Phe Leu Tyr Ile Trp Pro Asn Ala Arg Ile Ser Val Met						
	325		330		335	
Gly Gly Glu Gln Ala Ala Asn Val Leu Ala Thr Ile Thr Lys Asp Gln						
	340		345		350	
Arg Ala Arg Glu Gly Lys Gln Phe Ser Ser Ala Asp Glu Ala Ala Leu						
	355		360		365	
Lys Glu Pro Ile Ile Lys Lys Phe Glu Glu Glu Gly Asn Pro Tyr Tyr						
	370		375		380	
Ser Ser Ala Arg Val Trp Asp Asp Gly Ile Ile Asp Pro Ala Asp Thr						
	385		390		395	400
Arg Leu Val Leu Gly Leu Ser Phe Ser Ala Ala Leu Asn Ala Pro Ile						
	405		410		415	
Glu Lys Thr Asp Phe Gly Ile Phe Arg Met						

4305

420

425

<210> 4732

<211> 651

<212> PRT

<213> Homo sapiens

<400> 4732

```

Tyr Phe Thr Asn Glu Thr Asp Asp Ile Ala Asn Leu Glu Ala Ser Val
  1             5             10             15

Leu Glu Asn Pro Ser His Val Gln Leu Trp Leu Lys Leu Ala Tyr Lys
      20             25             30

Tyr Leu Asn Gln Asn Glu Gly Glu Cys Ser Glu Ser Leu Asp Ser Ala
      35             40             45

Leu Asn Val Leu Ala Arg Ala Leu Glu Asn Asn Lys Asp Asn Pro Glu
      50             55             60

Ile Trp Cys His Tyr Leu Arg Leu Phe Ser Lys Arg Gly Thr Lys Asp
      65             70             75             80

Glu Val Gln Glu Met Cys Glu Thr Ala Val Glu Tyr Ala Pro Asp Tyr
      85             90             95

Gln Ser Phe Trp Thr Phe Leu His Leu Glu Ser Thr Phe Glu Glu Lys
      100            105            110

Asp Tyr Val Cys Glu Arg Met Leu Glu Phe Leu Met Gly Ala Ala Lys
      115            120            125

Gln Glu Thr Ser Asn Ile Leu Ser Phe Gln Leu Leu Glu Ala Leu Leu
      130            135            140

Phe Arg Val Gln Leu His Ile Phe Thr Gly Arg Cys Gln Ser Ala Leu
      145            150            155            160

Ala Ile Leu Gln Asn Ala Leu Lys Ser Ala Asn Asp Gly Ile Val Ala
      165            170            175

Glu Tyr Leu Lys Thr Ser Asp Arg Cys Leu Ala Trp Leu Ala Tyr Ile
      180            185            190

His Leu Ile Glu Phe Asn Ile Leu Pro Ser Lys Phe Tyr Asp Pro Ser
      195            200            205

Asn Asp Asn Pro Ser Arg Ile Val Asn Thr Glu Ser Phe Val Met Pro
      210            215            220

```

4306

Trp	Gln	Ala	Val	Gln	Asp	Val	Lys	Thr	Asn	Pro	Asp	Met	Leu	Leu	Ala	225	230	235	240
Val	Phe	Glu	Asp	Ala	Val	Lys	Ala	Cys	Thr	Asp	Glu	Ser	Leu	Ala	Val	245	250	255	
Glu	Glu	Arg	Ile	Glu	Ala	Cys	Leu	Pro	Leu	Tyr	Thr	Asn	Met	Ile	Ala	260	265	270	
Leu	His	Gln	Leu	Leu	Glu	Arg	Tyr	Glu	Ala	Ala	Met	Glu	Leu	Cys	Lys	275	280	285	
Ser	Leu	Leu	Glu	Ser	Cys	Pro	Ile	Asn	Cys	Gln	Leu	Leu	Glu	Ala	Leu	290	295	300	
Val	Ala	Leu	Tyr	Leu	Gln	Thr	Asn	Gln	His	Asp	Lys	Ala	Arg	Ala	Val	305	310	315	320
Trp	Leu	Thr	Ala	Phe	Glu	Lys	Asn	Pro	Gln	Asn	Ala	Glu	Val	Phe	Tyr	325	330	335	
His	Met	Cys	Lys	Phe	Phe	Ile	Leu	Gln	Asn	Arg	Gly	Asp	Asn	Leu	Leu	340	345	350	
Pro	Phe	Leu	Arg	Lys	Phe	Ile	Ala	Ser	Phe	Phe	Lys	Pro	Gly	Phe	Glu	355	360	365	
Lys	Tyr	Asn	Asn	Leu	Asp	Leu	Phe	Arg	Tyr	Leu	Leu	Asn	Ile	Pro	Gly	370	375	380	
Pro	Ile	Asp	Ile	Pro	Ser	Arg	Leu	Cys	Lys	Gly	Asn	Phe	Asp	Asp	Asp	385	390	395	400
Met	Phe	Asn	His	Gln	Val	Pro	Tyr	Leu	Trp	Leu	Ile	Tyr	Cys	Leu	Cys	405	410	415	
His	Pro	Leu	Gln	Ser	Ser	Ile	Lys	Glu	Thr	Val	Glu	Ala	Tyr	Glu	Ala	420	425	430	
Ala	Leu	Gly	Val	Ala	Met	Arg	Cys	Asp	Ile	Val	Gln	Lys	Ile	Trp	Met	435	440	445	
Asp	Tyr	Leu	Val	Phe	Ala	Asn	Asn	Arg	Ala	Ala	Gly	Ser	Arg	Asn	Lys	450	455	460	
Val	Gln	Glu	Phe	Lys	Phe	Phe	Thr	Asp	Leu	Val	Asn	Arg	Cys	Leu	Val	465	470	475	480
Thr	Val	Pro	Ala	Arg	Tyr	Pro	Ile	Pro	Phe	Ser	Ser	Ala	Asp	Tyr	Trp	485	490	495	

4307

Ser Asn Tyr Glu Phe His Asn Arg Val Ile Phe Phe Tyr Leu Ser Cys
 500 505 510
 Val Pro Lys Thr Gln His Ser Lys Thr Leu Glu Arg Phe Cys Ser Val
 515 520 525
 Met Pro Ala Asn Ser Gly Leu Ala Leu Arg Leu Leu Gln His Glu Trp
 530 535 540
 Glu Glu Ser Asn Val Gln Ile Leu Lys Leu Gln Ala Lys Met Phe Thr
 545 550 555 560
 Tyr Asn Ile Pro Thr Cys Leu Ala Thr Trp Lys Ile Ala Ile Ala Ala
 565 570 575
 Glu Ile Val Leu Lys Gly Gln Arg Glu Val His Arg Leu Tyr Gln Arg
 580 585 590
 Ala Leu Gln Lys Leu Pro Leu Cys Ala Ser Leu Trp Lys Asp Gln Leu
 595 600 605
 Leu Phe Glu Ala Ser Glu Gly Gly Lys Thr Asp Asn Leu Arg Lys Leu
 610 615 620
 Val Ser Lys Cys Gln Glu Ile Gly Val Ser Leu Asn Glu Leu Leu Asn
 625 630 635 640
 Leu Asn Ser Asn Lys Thr Glu Ser Lys Asn His
 645 650

<210> 4733

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

4308

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4733

Arg	Ala	Pro	Ser	Phe	Lys	Lys	Leu	Xaa	Gly	Xaa	Pro	Pro	Xaa	Gly	Xaa
1				5				10					15		

Xaa	Arg	Glu	Xaa	Ser	Gly	Xaa	Arg	Xaa	Arg	Pro	Gln	Ser	Ala	Arg	Ala
		20						25					30		

Ala	Met	Ala	Leu	Leu	Leu	Ser	Val	Leu	Arg	Val	Leu	Leu	Gly	Gly	Phe
		35					40					45			

Phe	Ala	Leu	Val	Gly	Leu	Ala	Lys	Leu	Ser	Glu	Glu	Ile	Ser	Ala	Pro
		50				55					60				

Val	Ser	Glu	Arg	Met	Asn	Ala	Leu	Phe	Val	Gln	Phe	Ala	Glu	Val	Phe
65					70					75					80

Pro	Leu	Lys	Val	Phe	Gly	Tyr	Gln	Pro	Asp	Pro	Leu	Lys	Leu	Pro	Asn
				85					90					95	

Ser	Cys	Gly	Leu	Ser	Gly	Thr	Ala	Gly	Trp	Val	Ala	Ala	Gly	His	Gly
			100					105					110		

Pro	Thr	Asp	Ala	Ala	Arg	Asp	Gln
		115					120

4309

<210> 4734

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (232)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4734

Ser	Thr	Phe	Asp	Lys	Gly	Tyr	Gly	Lys	Tyr	Phe	Ala	Ala	Gly	Glu	Lys
1				5				10						15	

Tyr	His	Thr	Ser	Ser	Val	Phe	His	Lys	Ala	Gln	Arg	Ala	Arg	Trp	Lys
			20					25					30		

Asn	Arg	Arg	Ser	Trp	Arg	Leu	Ser	Gly	Val	His	Trp	Ser	Pro	Ile	Phe
			35				40					45			

Cys	Arg	Ile	Ser	Ala	Leu	Lys	Val	Gly	Ala	Asp	Leu	Ser	His	Val	Phe
	50					55					60				

Cys	Ala	Ser	Ala	Ala	Ala	Pro	Val	Ile	Lys	Ala	Tyr	Ser	Pro	Glu	Leu
65					70					75					80

Ile	Val	His	Pro	Val	Leu	Asp	Ser	Pro	Asn	Ala	Val	His	Glu	Val	Glu
				85					90					95	

Lys	Trp	Leu	Pro	Arg	Leu	His	Ala	Leu	Val	Val	Gly	Pro	Gly	Leu	Gly
		100						105					110		

Arg	Asp	Asp	Ala	Leu	Leu	Arg	Asn	Val	Gln	Gly	Ile	Leu	Glu	Val	Ser
		115					120					125			

Lys	Ala	Arg	Asp	Ile	Pro	Val	Val	Ile	Asp	Ala	Asp	Gly	Leu	Trp	Xaa
	130					135					140				

Val	Ala	Gln	Gln	Pro	Ala	Leu	Ile	His	Gly	Tyr	Arg	Lys	Ala	Val	Leu
145					150					155					160

Thr	Pro	Asn	His	Val	Glu	Phe	Ser	Arg	Leu	Tyr	Asp	Ala	Val	Leu	Arg
				165					170					175	

4310

Gly Pro Met Asp Ser Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser
 180 185 190
 Gln Ala Leu Gly Asn Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile
 195 200 205
 Leu Ser Asn Gly Gln Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser
 210 215 220
 Ala Gly Val Glu Gly Lys Gly Xaa Ser Cys Arg Ala Pro Trp Ala Ser
 225 230 235 240
 Trp Tyr Thr Gly

<210> 4735
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 4735
 Arg Asn Lys Ser Gln Met Gln Arg Tyr Asn Phe His Tyr Leu Lys Tyr
 1 5 10 15
 Ile Val His Phe Tyr Arg Thr Cys Asp Tyr Ser Arg Met Ile Arg Met
 20 25 30
 Val Leu Ala Tyr Gly Glu Leu Leu Leu Leu Thr Val Ser Ala Glu Ile
 35 40 45
 Leu Phe Gln Trp Thr Asn Ile Val Ala Trp Gln Gln Met Pro Thr Phe
 50 55 60
 Cys Gly Ile Ala Ala Asn Leu Gln Glu Thr Leu Val Gly Phe Ser Phe
 65 70 75 80
 Cys Phe Leu Cys Phe Phe Pro Leu Leu Leu Asn Gln Gln Gly Trp Lys
 85 90 95
 Glu Gly Arg Glu Val Met Asn Tyr Ser Phe Gln
 100 105

<210> 4736
 <211> 78
 <212> PRT
 <213> Homo sapiens

4311

<400> 4736

Val Val Ser Cys Gly Val Phe Phe Lys Lys Phe Asp Leu Ala Phe Ile
 1 5 10 15

Phe Ser Ile Leu Phe Pro Ile Lys Ser Met Gln Ile Ile Cys Pro Lys
 20 25 30

Leu Ser Ser Ser Ser Asp Ser Ala Phe Val Leu Cys Gln Ser His Phe
 35 40 45

His Leu Leu Pro Trp Phe His Arg Ser Phe Val Ser Trp Ala Ser Arg
 50 55 60

Lys Ile Lys Leu Tyr Leu Phe Cys Ile Cys Glu Met Phe Lys
 65 70 75

<210> 4737

<211> 171

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4737

Gly His Ser Glu Trp Val Ser Cys Val Arg Phe Ser Pro Asn Ser Ser
 1 5 10 15

Asn Pro Ile Ile Val Ser Cys Gly Trp Asp Lys Leu Val Lys Val Trp
 20 25 30

Asn Leu Ala Asn Cys Lys Leu Lys Thr Asn His Ile Gly His Thr Gly
 35 40 45

Tyr Leu Asn Thr Val Thr Val Ser Pro Asp Gly Ser Leu Cys Ala Ser
 50 55 60

Gly Gly Lys Asp Gly Gln Ala Met Leu Trp Asp Leu Asn Glu Gly Lys
 65 70 75 80

His Leu Tyr Thr Leu Asp Gly Gly Asp Ile Ile Asn Ala Leu Cys Phe
 85 90 95

Ser Pro Asn Arg Tyr Trp Leu Cys Ala Ala Thr Gly Pro Ser Ile Lys
 100 105 110

4312

Ile Trp Asp Leu Glu Gly Lys Ile Ile Val Asp Glu Leu Lys Gln Glu
 115 120 125

Val Ile Ser Thr Ser Ser Lys Ala Glu Pro Pro Gln Cys Thr Ser Leu
 130 135 140

Ala Trp Ser Ala Asp Gly Gln Thr Leu Phe Ala Gly Tyr Thr Asp Asn
 145 150 155 160

Leu Val Arg Xaa Gly Ser Asp His Trp Thr Arg
 165 170

<210> 4738

<211> 159

<212> PRT

<213> Homo sapiens

<400> 4738

Thr Pro Arg Asp Leu Val Cys Leu Gly Leu Ser Ser Ile Val Gly Val
 1 5 10 15

Trp Tyr Leu Leu Arg Lys His Trp Ile Ala Asn Asn Leu Phe Gly Leu
 20 25 30

Ala Phe Ser Leu Asn Gly Val Glu Leu Leu His Leu Asn Asn Val Ser
 35 40 45

Thr Gly Cys Ile Leu Leu Gly Gly Leu Phe Ile Tyr Asp Val Phe Trp
 50 55 60

Val Phe Gly Thr Asn Val Met Val Thr Val Ala Lys Ser Phe Glu Ala
 65 70 75 80

Pro Ile Lys Leu Val Phe Pro Gln Asp Leu Leu Glu Lys Gly Leu Glu
 85 90 95

Ala Asn Asn Phe Ala Met Leu Gly Leu Gly Asp Val Val Ile Pro Gly
 100 105 110

Ile Phe Ile Ala Leu Leu Leu Arg Phe Asp Ile Ser Leu Lys Lys Asn
 115 120 125

Thr His Thr Tyr Phe Tyr Thr Ser Phe Ala Ala Tyr Ile Phe Gly Leu
 130 135 140

Gly Leu Thr Ile Phe Ile Met His Ile Phe Lys His Ala Gln Leu
 145 150 155

4313

<210> 4739

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4739

Tyr	Lys	Tyr	Arg	Glu	Glu	Val	Ser	Met	Asn	Leu	Xaa	Ile	Val	Leu	Ser
1				5					10					15	

Asn	Pro	Leu	Glu	Cys	Gln	Ser	Leu	Lys	Asp	Phe	Ala	Leu	Leu	His	Gln
			20					25					30		

Ile	Thr	Ser	Phe	Ser	Gln	Ile	Pro	Ile	Ser	Val	Ile	Thr	Gly	Ala	Asn
		35					40					45			

Leu	Lys	Val	Leu	Tyr	Ser	Phe	Thr	Thr	Leu	Gln	Ile	Cys	Asn	Ala	Ala
	50					55					60				

Tyr	Asn	Ala	Glu	Glu	His
65					70

<210> 4740

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4740

Thr	Lys	Xaa	Lys	Ser	Gly	Glu	Leu	Ala	Val	Thr	Ser	Thr	Gly	Gly	His
1				5					10					15	

Gly	Arg	Glu	Gly	Ser	Leu	Leu	Glu	Gly	Leu	Pro	Trp	Arg	Leu	Glu	Trp
		20						25					30		

Gly	Leu	Pro	Gly	Arg	Pro	Ala	Phe	His	Pro	Cys	Leu	Pro	His	Pro	Cys
		35					40					45			

His	Arg	Leu	Cys	Thr	Pro	Leu	Asp	Gly	Gly	Ser	Lys	Pro	Gly	Thr	Val
	50					55					60				

4314

Pro Val Leu Val Arg Val Ile Ile Met Ile Asn Ile Asn Tyr Asp Ala
 65 70 75 80

Lys Asn Cys Trp Ala Asn Phe Glu Asp Leu Asn Leu Leu Gln
 85 90

<210> 4741

<211> 128

<212> PRT

<213> Homo sapiens

<400> 4741

Pro Ser Ser Leu Arg Lys Glu Ser Glu Ser Arg Glu Val Asp Ala Ser
 1 5 10 15

Tyr Leu Leu Glu Arg Pro Ser Ser Val Ser Val Val Val Thr Ala Pro
 20 25 30

Ser Ala Met Ser Phe Ser Ala Thr Ile Leu Phe Ser Pro Pro Ser Gly
 35 40 45

Ser Glu Ala Arg Cys Cys Cys Cys Ala Cys Lys Ser Glu Thr Asn Gly
 50 55 60

Gly Asn Thr Gly Ser Gln Gly Gly Asn Pro Pro Pro Ser Thr Pro Ile
 65 70 75 80

Thr Val Thr Gly His Gly Leu Ala Val Gln Ser Ser Glu Gln Leu Leu
 85 90 95

His Val Ile Tyr Gln Arg Val Asp Lys Ala Val Gly Leu Ala Glu Ala
 100 105 110

Ala Leu Gly Leu Ala Arg Ala Asn Asn Glu Leu Leu Lys Arg Leu Gln
 115 120 125

<210> 4742

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4315

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4742

Arg	Lys	Phe	Ser	Leu	Thr	His	Ser	Tyr	Gln	Ala	Ser	Ile	Ile	Gln	Ile
1				5					10					15	

Pro	Lys	Pro	Ile	Ile	Asp	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	His
			20					25					30		

His	Ala	Asn	Val	Phe	Gly	Lys	His	Cys	Ala	Lys	Ile	Leu	Asn	Lys	Ile
		35					40					45			

Leu	Ala	Ser	Gln	Ile	Gln	Gln	His	Ile	Lys	Lys	Phe	Ile	Xaa	Asn	Asn
		50					55				60				

Gly	Val	Gly	Phe	Val	Pro	Arg	Met	Gln	Gly
65						70			

<210> 4743

<211> 149

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4743

Ser	Trp	Ser	Arg	Glu	Arg	Ala	Pro	Ala	Pro	Leu	Trp	Glu	Asp	Arg	Glu
1				5					10					15	

Met	Pro	Val	Leu	Lys	Gln	Leu	Gly	Pro	Ala	Gln	Pro	Lys	Lys	Arg	Pro
			20					25					30		

Asp	Arg	Gly	Ala	Leu	Ser	Ile	Ser	Ala	Pro	Leu	Gly	Asp	Phe	Arg	His
		35					40					45			

4316

Thr Leu His Val Gly Arg Gly Gly Asp Ala Phe Gly Asp Thr Ser Phe
 50 55 60
 Leu Ser Arg His Gly Gly Gly Pro Pro Pro Ser Pro Gly Arg Pro Pro
 65 70 75 80
 Arg Gly Pro Arg Xaa Pro Arg Arg Arg Arg Arg Pro Gln Ser Ala Ala
 85 90 95
 Pro Arg Leu Arg Pro Ala Val Pro Ser Pro Gly Ser Gly Ala Ser Cys
 100 105 110
 Trp Thr Arg Cys Trp Arg Met Asp Ala Ala Arg Arg Ser Gly Cys Ala
 115 120 125
 Ser His Ala Asn Pro Pro Gly Xaa Ala Pro Ala Val Arg His Ala Thr
 130 135 140
 Xaa Tyr Thr Met Ala
 145

<210> 4744

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4744

Arg Arg Pro Arg Ser Arg Leu Arg Val Thr Ser Val Ser Asp Gln Asn
 1 5 10 15
 Asp Arg Val Val Glu Cys Gln Leu Gln Thr His Asn Ser Lys Met Val
 20 25 30
 Thr Phe Arg Phe Asp Leu Asp Gly Asp Ser Pro Glu Glu Ile Ala Ala
 35 40 45
 Ala Met Val Tyr Asn Glu Phe Ile Leu Pro Ser Glu Arg Asp Gly Phe
 50 55 60

4317

Leu Arg Arg Ile Arg Glu Ile Ile Gln Arg Val Glu Thr Leu Leu Lys
 65 70 75 80
 Arg Asp Thr Gly Pro Met Glu Ala Ala Glu Asp Thr Leu Ser Pro Gln
 85 90 95
 Glu Glu Pro Ala Pro Leu Pro Ala Leu Pro Val Pro Leu Pro Asp Pro
 100 105 110
 Ser Asn Glu Glu Leu Gln Ser Ser Thr Ser Leu Glu His Arg Ser Trp
 115 120 125
 Thr Ala Phe Ser Thr Ser Phe Ile Leu Ser Ser Trp Glu Leu Leu Cys
 130 135 140
 Leu Leu Gly Asn Pro Phe Ser Pro Gly Thr Pro Ile Phe Pro Arg Val
 145 150 155 160
 Pro Xaa Phe Pro Ile Xaa Phe
 165

<210> 4745

<211> 279

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4745

Ala Gln Asp Gln Trp Ser Glu Leu Phe Met Asp Ala Leu Gly Pro Phe
 1 5 10 15
 Asn Phe Val Leu Val Ser Ser Val Arg Met Gln Gly Val Ile Leu Leu
 20 25 30
 Leu Phe Ala Lys Tyr Tyr His Leu Pro Phe Leu Arg Asp Val Gln Thr
 35 40 45
 Asp Cys Thr Arg Thr Gly Leu Gly Gly Tyr Trp Gly Asn Lys Gly Gly
 50 55 60
 Val Ser Val Arg Leu Ala Ala Phe Gly His Met Leu Cys Phe Leu Asn
 65 70 75 80
 Cys His Leu Pro Ala His Met Asp Lys Ala Glu Gln Arg Lys Asp Asn
 85 90 95

4318

Phe Gln Thr Ile Leu Ser Leu Gln Gln Phe Gln Gly Pro Gly Ala Gln
 100 105 110
 Gly Ile Leu Asp His Asp Leu Val Phe Trp Phe Gly Asp Leu Asn Phe
 115 120 125
 Arg Ile Glu Ser Tyr Asp Leu His Phe Val Lys Phe Ala Ile Asp Ser
 130 135 140
 Asp Gln Leu His Gln Leu Trp Glu Lys Asp Gln Leu Asn Met Ala Lys
 145 150 155 160
 Asn Thr Trp Pro Ile Leu Lys Gly Phe Gln Glu Gly Pro Leu Asn Phe
 165 170 175
 Ala Pro Thr Phe Lys Phe Asp Val Gly Thr Asn Lys Tyr Asp Thr Ser
 180 185 190
 Ala Lys Lys Arg Lys Pro Ala Trp Thr Asp Arg Ile Leu Trp Lys Val
 195 200 205
 Lys Ala Pro Gly Gly Gly Pro Ser Pro Ser Gly Arg Lys Ser His Arg
 210 215 220
 Leu Gln Val Thr Gln His Ser Tyr Arg Ser His Met Glu Tyr Thr Val
 225 230 235 240
 Ser Asp His Lys Pro Val Xaa Ala Gln Phe Leu Leu Gln Phe Ala Phe
 245 250 255
 Gln Gly Arg His Ala Thr Gly Ala Ala Gly Gly Gly Gln Met Ser Gly
 260 265 270
 Cys Gly Pro Ser Arg Arg Trp
 275

<210> 4746

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4746

Pro Met Ala Leu Ala Lys Thr Ala Ile Leu Val Arg Leu Ser Tyr Phe

4319

1	5	10	15
Leu Phe Ile Asp Thr Ser Thr Xaa Thr Ala Phe Leu Ser Ser Val Asp	20	25	30
Leu His Thr His Cys Ser Tyr Gln Leu Met Leu Pro Glu Ala Ile Ala	35	40	45
Ile Val Cys Ser Pro Lys His Lys Asp Thr Gly Ile Phe Arg Leu Thr	50	55	60
Asn Ala Gly Met Leu Glu Val Ser Ala Cys Lys Lys Lys Gly Phe His	65	70	75
Pro His Thr Lys Glu Pro Arg Leu Phe Ser Ile Cys Lys His Val Leu	85	90	95
Val Lys Asp Ile Lys Ile Ile Val Leu Asp Leu Arg	100	105	

<210> 4747

<211> 84

<212> PRT

<213> Homo sapiens

<400> 4747

Lys Glu Met Val Ile Leu Trp Thr Met Glu Thr Ser Ser Glu Tyr Ala	1	5	10	15
Asp Phe Pro Leu Leu Thr Leu Pro Ser Leu Trp Leu Leu Leu Pro Asp	20	25	30	
Lys Gly Gln Gly His Leu Lys Thr Leu Pro Pro Val Gly Phe Gly Val	35	40	45	
Thr Gly Ala Ser Ala Cys Ser His Ile Phe Gln Lys Gly Ser Ala Leu	50	55	60	
Arg Thr Ser Leu Tyr Leu Gly Phe Leu Ile Pro Leu Ala Val Leu Thr	65	70	75	80
Ser Arg Glu Thr				

<210> 4748

<211> 65

<212> PRT

4320

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4748

Met	Phe	Lys	Leu	Tyr	Ser	Ser	Leu	Ala	Arg	Met	Xaa	Asn	Thr	Cys	Ala
1					5				10					15	

Leu	Lys	Ala	Asn	Arg	Glu	Arg	Val	His	Asn	Ile	Leu	Gln	Xaa	Leu	Lys
			20					25					30		

His	Asn	Leu	Xaa	His	His	Leu	Pro	Leu	Ala	Asn	Ile	Pro	Ser	Gln	Leu
		35					40					45			

Phe	Ser	Arg	Glu	Glu	Pro	Phe	Lys	Leu	Trp	Ser	Ser	Ile	Tyr	Tyr	Phe
	50						55				60				

His

65

<210> 4749

<211> 27

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4749

4321

Arg Asn Ala Lys Val Gly Xaa Gly Val Val Ala His Ala Cys Gly Pro
 1 5 10 15

Gly Cys Leu Gly Gly Trp Xaa Gly Arg Ile Ala
 20 25

<210> 4750

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4750

Ser Ser Tyr Ser Lys Ile Ser Leu Arg Asn Ser Ser Lys Val Thr Glu
 1 5 10 15

Ser Ala Ser Val Xaa Gln Ser Gln Asp Val Ser Gly Ser Glu Asp Thr
 20 25 30

Phe Pro Asn Lys Arg Pro Arg Leu Glu Asp Lys Thr Val Phe Asp Asn
 35 40 45

Phe Phe Ile Lys Lys Glu Gln Ile Lys Ser Ser Gly Asn Asp Pro Lys
 50 55 60

Tyr Ser Thr Thr Thr Ala Gln Asn Ser Ser Ser Ser Ser Gln Ser
 65 70 75 80

Lys Met Val Asn Cys Pro Val Cys Gln Asn Glu Val Leu Glu Ser Gln
 85 90 95

Ile Asn Glu His Leu Asp Trp Cys Leu Glu Gly Asp Ser Ile Lys Val
 100 105 110

Xaa Ser Glu Glu Ser Leu
 115

<210> 4751

4322

<211> 172

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4751

Pro	Thr	Arg	Pro	Pro	Gln	Ala	Asn	Arg	Gly	Val	Val	Arg	Trp	Glu	Tyr
1				5					10					15	

Phe	Arg	Leu	Arg	Pro	Leu	Arg	Phe	Arg	Ala	Pro	Ala	Leu	Arg	Leu	Gln
			20					25					30		

Lys	Ser	Gln	Ser	Ser	Asp	Leu	Leu	Glu	Arg	Glu	Arg	Glu	Ser	Val	Leu
		35					40					45			

Arg	Arg	Glu	Gln	Glu	Val	Xaa	Glu	Glu	Arg	Arg	Asn	Ala	Leu	Phe	Pro
		50				55					60				

Glu	Val	Phe	Ser	Pro	Thr	Pro	Asp	Glu	Asn	Ser	Asp	Gln	Asn	Ser	Arg
65					70					75					80

Ser	Ser	Ser	Gln	Ala	Ser	Gly	Ile	Thr	Gly	Ser	Tyr	Ser	Val	Ser	Glu
				85					90					95	

Ser	Pro	Phe	Phe	Ser	Pro	Ile	His	Leu	His	Ser	Asn	Val	Ala	Trp	Thr
			100					105					110		

Val	Glu	Asp	Xaa	Val	Asp	Ser	Ala	Pro	Pro	Gly	Gln	Arg	Lys	Lys	Glu
		115					120					125			

Gln	Trp	Tyr	Ala	Gly	Ile	Asn	Pro	Ser	Asp	Gly	Ile	Asn	Ser	Glu	Val
	130					135					140				

Leu	Glu	Ala	Ile	Arg	Val	Thr	Arg	His	Lys	Asn	Ala	Met	Ala	Glu	Arg
145					150					155					160

Trp	Glu	Ser	Arg	Ile	Tyr	Ala	Ser	Glu	Glu	Asp	Asp
				165						170	

<210> 4752

4323

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4752

Glu	Trp	Glu	Cys	Trp	Leu	Leu	Leu	Gln	Tyr	Trp	Ser	Leu	Tyr	Thr	Val
1				5					10					15	

Leu	His	Thr	Arg	Phe	Phe	Ser	Gly	Tyr	Met	Ser	Phe	Leu	Ser	Lys	Leu
			20					25					30		

Cys	Gly	Ser	His	Glu	Glu	Thr	Ser	Asn	Gln	Gly	Lys	Gly	Glu	Gly	Leu
		35					40					45			

Arg	His	Lys	Thr	Tyr	Leu	Tyr	Lys	Ile	Ser	Phe	Lys	Asn	Ser	Asn	Leu
	50					55					60				

Gly	His	Val	Lys	Phe	Phe	Tyr	Ile	Phe	Ser	Cys	Leu	Asn	Leu	Ser	Ser
65					70					75					80

Phe	Phe	Met	Leu	Cys	Ser	Ala	Arg	Lys	Cys	Gly	Glu	Met	Asp	Xaa	Gly
				85					90					95	

Gly	Cys	Gly	Xaa	Asp	Arg	Trp	Leu	Gly	Ser	Thr	Cys	Leu	Cys	Leu	Phe
			100					105					110		

Pro	Phe	Met	Cys	Ser	Cys	Val
						115

<210> 4753

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

4324

<400> 4753

Xaa Gly Arg Ala Trp Val Met Ala Ala Pro Gly Ala Leu Leu Val Met
 1 5 10 15
 Gly Val Ser Gly Ser Gly Lys Ser Thr Val Gly Ala Leu Leu Ala Ser
 20 25 30
 Glu Leu Gly Trp Lys Phe Tyr Asp Ala Asp Asp Tyr His Pro Glu Glu
 35 40 45
 Asn Arg Arg Lys Met Gly Lys Gly Ile Pro Leu Asn Asp Gln Asp Arg
 50 55 60
 Ile Pro Trp Leu Cys Asn Leu His Asp Ile Leu Leu Arg Asp Val Ala
 65 70 75 80
 Ser Gly Gln Arg Val Val Leu Ala Cys Ser Ala Leu Lys Lys Thr Tyr
 85 90 95
 Arg Asp Ile Leu Thr Gln Gly Lys Asp Gly Val Ala Leu Lys Cys Glu
 100 105 110
 Glu Ser Gly Lys Glu Ala Lys Gln Ala Glu Met Gln Leu Leu Val Val
 115 120 125
 His Leu Ser Gly Ser Phe Glu Val Ile Ser Gly Arg Leu Leu Lys Arg
 130 135 140
 Glu Gly His Phe Met Pro Pro Glu Leu Leu Gln Ser Gln Phe Glu Thr
 145 150 155 160
 Leu Glu Pro Pro Ala Ala Pro Glu Asn Phe Ile Gln Ile Ser Val Asp
 165 170 175
 Lys Asn Val Ser Glu Ile Ile Ala Thr Ile Met Glu Thr Leu Lys Met
 180 185 190

Lys

<210> 4754

<211> 194

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

4325

<400> 4754

Gln Asp His Gly Ala Trp Leu Arg Gly Gly Asp Val Trp Leu Asp Ser
 1 5 10 15
 Cys Arg Phe Ala Asp Asn Gly Ile Gly Leu Thr Leu Ala Ser Gly Gly
 20 25 30
 Thr Phe Pro Tyr Asp Asp Gly Ser Lys Gln Glu Ile Lys Asn Ser Leu
 35 40 45
 Phe Val Gly Glu Ser Gly Asn Val Gly Thr Glu Met Met Asp Asn Arg
 50 55 60
 Ile Trp Gly Pro Gly Gly Leu Asp His Ser Gly Arg Thr Leu Pro Ile
 65 70 75 80
 Gly Gln Asn Phe Pro Ile Arg Gly Ile Gln Leu Tyr Asp Gly Pro Ile
 85 90 95
 Asn Ile Gln Asn Cys Thr Phe Arg Lys Phe Val Ala Leu Glu Gly Arg
 100 105 110
 His Thr Ser Ala Leu Ala Phe Arg Leu Asn Asn Ala Trp Gln Ser Cys
 115 120 125
 Pro His Asn Asn Val Thr Gly Ile Ala Phe Glu Asp Val Pro Ile Thr
 130 135 140
 Ser Arg Val Phe Phe Gly Glu Pro Gly Pro Trp Phe Asn Gln Leu Asp
 145 150 155 160
 Met Asp Gly Asp Lys Thr Ser Val Phe His Asp Val Asp Gly Ser Val
 165 170 175
 Ser Glu Tyr Pro Gly Xaa Tyr Leu Arg Arg Met Thr Thr Gly Trp Ser
 180 185 190
 Gly Thr

<210> 4755

<211> 500

<212> PRT

<213> Homo sapiens

<400> 4755

Ile Arg His Glu Lys Asp Arg Gly Pro Arg Arg Ser Val Ser Phe Pro
 1 5 10 15

4326

Arg Ala Leu Ser Gly Asn Met Ala Gly Val Glu Glu Val Ala Ala Ser
 20 25 30

Gly Ser His Leu Asn Gly Asp Leu Asp Pro Asp Asp Arg Glu Glu Gly
 35 40 45

Ala Ala Ser Thr Ala Glu Glu Ala Ala Lys Lys Lys Arg Arg Lys Lys
 50 55 60

Lys Lys Ser Lys Gly Pro Ser Ala Ala Gly Glu Gln Glu Pro Asp Lys
 65 70 75 80

Glu Ser Gly Ala Ser Val Asp Glu Val Ala Arg Gln Leu Glu Arg Ser
 85 90 95

Ala Leu Glu Asp Lys Glu Arg Asp Glu Asp Asp Glu Asp Gly Asp Gly
 100 105 110

Asp Gly Asp Gly Ala Thr Gly Lys Lys Lys Lys Lys Lys Lys Lys Lys
 115 120 125

Arg Gly Pro Lys Val Gln Thr Asp Pro Pro Ser Val Pro Ile Cys Asp
 130 135 140

Leu Tyr Pro Asn Gly Val Phe Pro Lys Gly Gln Glu Cys Glu Tyr Pro
 145 150 155 160

Pro Thr Gln Asp Gly Arg Thr Ala Ala Trp Arg Thr Thr Ser Glu Glu
 165 170 175

Lys Lys Ala Leu Asp Gln Ala Ser Glu Glu Ile Trp Asn Asp Phe Arg
 180 185 190

Glu Ala Ala Glu Ala His Arg Gln Val Arg Lys Tyr Val Met Ser Trp
 195 200 205

Ile Lys Pro Gly Met Thr Met Ile Glu Ile Cys Glu Lys Leu Glu Asp
 210 215 220

Cys Ser Arg Lys Leu Ile Lys Glu Asn Gly Leu Asn Ala Gly Leu Ala
 225 230 235 240

Phe Pro Thr Gly Cys Ser Leu Asn Asn Cys Ala Ala His Tyr Thr Pro
 245 250 255

Asn Ala Gly Asp Thr Thr Val Leu Gln Tyr Asp Asp Ile Cys Lys Ile
 260 265 270

Asp Phe Gly Thr His Ile Ser Gly Arg Ile Ile Asp Cys Ala Phe Thr
 275 280 285

4327

Val Thr Phe Asn Pro Lys Tyr Asp Thr Leu Leu Lys Ala Val Lys Asp
 290 295 300
 Ala Thr Asn Thr Gly Ile Lys Cys Ala Gly Ile Asp Val Arg Leu Cys
 305 310 315 320
 Asp Val Gly Glu Ala Ile Gln Glu Val Met Glu Ser Tyr Glu Val Glu
 325 330 335
 Ile Asp Gly Lys Thr Tyr Gln Val Lys Pro Ile Arg Asn Leu Asn Gly
 340 345 350
 His Ser Ile Gly Gln Tyr Arg Ile His Ala Gly Lys Thr Val Pro Ile
 355 360 365
 Val Lys Gly Gly Glu Ala Thr Arg Met Glu Glu Gly Glu Val Tyr Ala
 370 375 380
 Ile Glu Thr Phe Gly Ser Thr Gly Lys Gly Val Val His Asp Asp Met
 385 390 395 400
 Glu Cys Ser His Tyr Met Lys Asn Phe Asp Val Gly His Val Pro Ile
 405 410 415
 Arg Leu Pro Arg Thr Lys His Leu Leu Asn Val Ile Asn Glu Asn Phe
 420 425 430
 Gly Thr Leu Ala Phe Cys Arg Arg Trp Leu Asp Arg Leu Gly Glu Ser
 435 440 445
 Lys Tyr Leu Met Ala Leu Lys Asn Leu Cys Asp Leu Gly Ile Val Asp
 450 455 460
 Pro Tyr Pro Pro Leu Cys Asp Ile Lys Gly Ser Tyr Thr Ala Gln Phe
 465 470 475 480
 Glu His Thr Ile Leu Leu Arg Pro Thr Cys Lys Glu Val Val Ser Arg
 485 490 495
 Gly Asp Asp Tyr
 500

<210> 4756

<211> 76

<212> PRT

<213> Homo sapiens

<400> 4756

4328

Ala Leu Ala Ile Ala Glu Lys Ser Gln Glu Phe Leu Glu Ala Asp Asn
 1 5 10 15
 Arg Gln Leu Pro Asn Gly Val Tyr Thr Thr Ala Glu Gln Arg Pro Asn
 20 25 30
 Ala Tyr Ile Pro Glu Ala Asp Ala Thr Leu Pro Leu Pro Lys Pro Tyr
 35 40 45
 Gly Ala Leu Ala Pro Phe Lys Pro Ser Glu Pro Gly Ala Asn Met Arg
 50 55 60
 His Ile Arg Lys Pro Val Ile Lys Pro Val Glu Ile
 65 70 75

<210> 4757

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4757

Met Ala Tyr Thr Ile Pro Val Ile Ile Val Gly Gly Cys Trp Phe Ala
 1 5 10 15

Trp Arg His Gln Ser Ser Asp Glu Xaa Ile Asp Tyr Phe Ala Val Ser
 20 25 30

Leu Arg Ile Ile Gly Val Leu Ala Leu Ile Leu Thr Ser Cys Gly Leu
 35 40 45

4329

Ala Ala Ile Asn Ala Asp Xaa Ile Trp Tyr Phe Ala Ser Gly Gly Val
 50 55 60
 Xaa Gly Ser Leu Leu Ser Thr Xaa Leu Gln Pro Leu Leu His Ser Ser
 65 70 75 80
 Gly Gly Thr Ile Ala Leu Leu Cys Val Trp Ala Ala Gly Leu Thr Leu
 85 90 95
 Phe Thr Gly Trp Ser Trp Val Thr Leu Leu Lys Asn Ser Ala Ala Gly
 100 105 110

Phe

<210> 4758

<211> 111

<212> PRT

<213> Homo sapiens

<400> 4758

Thr Ile Cys Val Val Arg Gly Ala Thr Ala Ile Ser Ala Glu Leu Gly
 1 5 10 15
 Gly Ile Ser Thr Thr Phe Leu Ser Ala Glu Ala Phe Pro Pro Thr Leu
 20 25 30
 Met Leu Phe Asn Ser Val Leu Arg Gln Pro Gln Leu Gly Val Leu Arg
 35 40 45
 Asn Gly Trp Ser Ser Gln Tyr Pro Leu Gln Ser Leu Leu Thr Gly Tyr
 50 55 60
 Gln Cys Ser Gly Asn Asp Glu His Thr Ser Tyr Gly Glu Thr Gly Val
 65 70 75 80
 Pro Val Pro Pro Phe Gly Cys Thr Phe Ser Ser Ala Pro Asn Met Glu
 85 90 95
 His Val Leu Ala Val Ala Asn Glu Glu Gly Phe Cys Ser Ile Val
 100 105 110

<210> 4759

<211> 157

<212> PRT

<213> Homo sapiens

4330

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4759

Ala	Gly	Glu	Arg	Asp	Gln	Gly	Arg	Arg	Arg	Gly	Glu	Ser	Arg	Glu	Gly
1				5					10					15	

Trp	Ser	Phe	Gly	Glu	Ser	Leu	Trp	Lys	Met	Ala	Pro	Val	Val	Thr	Gly
			20					25					30		

Lys	Phe	Gly	Glu	Arg	Pro	Pro	Pro	Lys	Arg	Leu	Thr	Arg	Glu	Ala	Met
		35					40					45			

Arg	Asn	Tyr	Leu	Lys	Glu	Arg	Gly	Asp	Gln	Thr	Val	Leu	Ile	Leu	His
	50					55					60				

Ala	Lys	Val	Ala	Gln	Lys	Ser	Tyr	Gly	Asn	Glu	Lys	Arg	Phe	Phe	Cys
65					70					75					80

Pro	Pro	Pro	Cys	Val	Tyr	Leu	Met	Gly	Ser	Gly	Trp	Lys	Lys	Lys	Lys
				85					90					95	

Glu	Gln	Met	Glu	Arg	Asp	Gly	Cys	Ser	Glu	Gln	Glu	Ser	Gln	Pro	Cys
		100						105					110		

Ala	Phe	Ile	Gly	Xaa	Gly	Asn	Ser	Asp	Gln	Glu	Met	Gln	Gln	Leu	Asn
		115					120					125			

Leu	Gly	Arg	Lys	Xaa	Leu	Leu	His	Ser	Gln	Thr	Leu	Tyr	Ile	Ser	Xaa
	130					135					140				

Ser	Ala	Ser	Glu	Asp	Phe	His	Val	Val	Cys	Lys	Val	Phe
145					150					155		

<210> 4760

<211> 60

4331

<212> PRT

<213> Homo sapiens

<400> 4760

Leu	Arg	Met	Cys	Glu	Lys	Leu	Thr	Glu	Pro	Asp	Ala	Cys	Cys	Tyr	Phe
1				5				10						15	

Thr	Ala	Met	Ser	Leu	Phe	Leu	Ser	Thr	Leu	Lys	Ile	Phe	Phe	Leu	Phe
			20					25					30		

Asn	Val	Val	Tyr	Phe	Gly	Leu	Arg	Asn	Asn	Cys	Ser	Val	Glu	Asn	Asn
			35				40					45			

Pro	Leu	Ser	Glu	Lys	Lys	Val	Ala	Thr	Thr	Ser	Phe
	50					55					60

<210> 4761

<211> 460

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (303)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (305)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (436)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (442)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (444)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (447)

4332

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (448)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4761

Leu	Asp	Ala	Pro	Leu	Asp	Thr	Phe	Asn	Gly	Asn	Arg	Phe	Ala	Leu	Arg
1				5					10					15	

Leu	Thr	Ala	Ile	Phe	Leu	Gln	Pro	Leu	Gly	Lys	Leu	Val	Val	Arg	Ala
		20						25					30		

Leu	His	Gly	Pro	Trp	Asn	Thr	Asp	Ser	Pro	Asp	Asn	Leu	Glu	Glu	Val
		35					40					45			

Lys	Phe	Leu	Leu	His	Met	Trp	Val	Ala	Leu	Phe	Tyr	Ser	Asn	Gln	Asn
	50					55					60				

Lys	Ile	Ile	Arg	Ser	Ser	Arg	Lys	Val	Val	Glu	His	Ser	Asn	Pro	Ala
65					70					75					80

Lys	Tyr	Val	Ser	Ile	Asn	Ser	Thr	Leu	Glu	Ser	Cys	Glu	Leu	Arg	Glu
				85					90					95	

Ile	Glu	Glu	Ser	Leu	Gly	Leu	Glu	Lys	Cys	Ser	Ala	Asp	Ser	Leu	Leu
			100					105					110		

Glu	Thr	Asn	Glu	Ile	Ser	Arg	Ala	His	Ala	Ala	Glu	Val	Ser	Phe	Arg
		115					120					125			

Asp	Pro	Asn	Cys	Leu	Leu	Pro	Phe	Ile	Lys	Thr	Pro	Leu	Thr	Gln	Gly
	130					135					140				

Leu	Glu	Leu	Cys	Val	Gln	Asn	Glu	Gln	Lys	Lys	Thr	Phe	Ala	Arg	Glu
145					150					155					160

Cys	Asp	Pro	Asp	Thr	Gln	Glu	Asp	Gln	Asn	Phe	Ile	Cys	Ser	Tyr	Asn
				165					170					175	

Asn	Glu	Val	Thr	Gly	Glu	Glu	Ala	Lys	Gln	Glu	Ser	Leu	Glu	Thr	Ser
			180					185					190		

Asn	Leu	Val	Leu	Ser	Gly	Ile	Gly	Ser	Thr	Gln	Thr	Asn	Gly	Pro	Ser
		195					200						205		

Val	Pro	Ser	Glu	Glu	Glu	Ile	Val	Gln	Pro	Leu	Asp	Ser	Thr	Arg	Val
	210					215					220				

Ala	Ser	Tyr	Ser	Gly	Thr	Val	Thr	Gln	Ala	Thr	Phe	Thr	Arg	Thr	Tyr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4333

225		230		235		240
Asp Gly Pro Gly Ser Gln Pro Val Ile Cys Gln Ser Ser Val Tyr Gly						
	245		250		255	
Thr Leu Glu Asn Lys Val Asp Ile Leu Asp Ala Ala Val Gln Thr Lys						
	260		265		270	
Thr Gly Thr Leu Gln Asp Leu Ile Gln His Gly Ser Pro Ile Asn Asn						
	275		280		285	
Glu Cys His Pro Ser Leu Glu Arg Lys Asp Asp Asn Met Gly Xaa Ala						
	290		295		300	
Xaa Ile Asn Pro Glu Pro Ile Thr Leu Thr Phe Glu Lys Asn Ala His						
305		310		315		320
Val Pro Ile Gln Thr Glu Gly Val Asn Thr Ala Asp Glu Pro Thr Thr						
	325		330		335	
Phe Lys Lys Glu Leu Ile Lys Gln Val Ser Pro Ala Ala Ser Leu Arg						
	340		345		350	
His Pro Val Ser Thr Ser Glu Asn Ala Arg Thr Gln Gly Leu Arg Asp						
	355		360		365	
Ile Pro Ser Leu Val Val Ala Gly Gln Lys Gly Thr Lys Tyr Leu Cys						
	370		375		380	
Ala Ser Ser Val Gly Gly Glu Thr Leu Asp Lys Ala Val Cys Ser Leu						
385		390		395		400
Gln Lys Glu Thr Pro Leu Pro Val Ser Leu Pro Ser Asp Lys Thr Met						
	405		410		415	
Val Met Glu Ala Leu Ser Leu Ala Lys Ser Ser Ser His Leu Ser Pro						
	420		425		430	
Ser Glu Glu Xaa Arg Cys Thr Gln Asp Xaa Leu Xaa Gln Thr Xaa Xaa						
	435		440		445	
Leu Leu Gly Leu Ser Leu Glu Arg Leu Leu Arg Thr						
	450		455		460	

<210> 4762

<211> 72

<212> PRT

<213> Homo sapiens

4334

<400> 4762

Ala Ser Asp Pro Thr Leu Val Leu Ala Pro Gln Gln Trp Leu Pro Leu
 1 5 10 15

Thr Leu Ser Arg Arg Trp Leu Gly Gly Gly Tyr Leu Trp Val Ala Gly
 20 25 30

Lys Gly Val Gly Arg Phe Arg Met Val Gly Gly Thr Glu Val Pro Glu
 35 40 45

Val Lys Arg Pro Leu Val Leu Thr Gly Leu Thr Arg Ala Trp Thr Leu
 50 55 60

Gly Ala Val Leu Cys Glu Leu Ala
 65 70

<210> 4763

<211> 135

<212> PRT

<213> Homo sapiens

<400> 4763

Trp Glu Pro Thr Phe Phe Gly Phe Ser Gly Glu His Asn Ser Lys His
 1 5 10 15

Pro Leu Gly Ser His Met Tyr Arg Asn Gly Thr Gln Leu Gly His Ser
 20 25 30

His Gly Leu Pro Arg Pro Gly Met Cys Gly Ala Lys Trp Gly Gln Gly
 35 40 45

Pro Asp Pro Arg Gly Glu Gly Gly Pro Gln Thr Pro Arg Asp Val Ser
 50 55 60

Ile Pro Arg Pro Ala Phe Trp Arg His Leu Pro Gly Ala Val Leu Ser
 65 70 75 80

Gln Gln Ala Trp Gly Glu Ser Leu Val Tyr Ala Gly Asn Arg Val Gln
 85 90 95

Gly Pro Ser Val Pro Pro Ser Ala Leu Thr Trp Ala Met His Pro Leu
 100 105 110

Ser Pro Lys His Lys Gln Ala Leu Leu Gln Tyr Gly Ala Arg Thr Gly
 115 120 125

Val Pro Ser Val Leu Trp Leu
 130 135

4335

<210> 4764

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4764

His	Lys	Cys	Phe	Gln	Cys	Phe	Ile	Leu	Ala	Asn	Gly	Phe	Leu	Lys	Val
1				5					10					15	

Ile	Lys	Pro	Phe	Gln	Arg	Asn	Trp	Ser	Asp	Lys	Thr	Phe	Phe	Leu	Val
			20					25					30		

Cys	Leu	Asn	Lys	Ala	Ile	Ser	Glu	Ala	Leu	Leu	Ser	Lys	Met	Thr	Phe
		35					40					45			

Leu	Ser	Phe	Phe	Lys	Thr	Asn	Leu	Leu	Leu	Leu	Glu	Thr	Phe	Cys	Thr
	50					55					60				

Ile	Lys	Gln	Ser	Arg	Arg	Leu	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
65					70					75					80

Lys	Arg	Ala	Ala	Ala	Leu	Glu	Asp	Pro	Ser	Leu	Arg	Thr	Arg	Ala	Cys
				85					90					95	

Asp	Val	Ile	Ala	Leu	Leu	Leu	Arg	Xaa	Pro
			100					105	

<210> 4765

<211> 287

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

4336

<220>

<221> SITE

<222> (286)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4765

Ile	Arg	His	Glu	Val	Cys	Arg	Val	Leu	Pro	Ala	Pro	Xaa	Leu	Ile	Gly
1				5				10					15		

Ala	Met	Asp	Trp	Lys	Thr	Leu	Gln	Ala	Leu	Leu	Ser	Gly	Val	Asn	Lys
		20					25						30		

Tyr	Ser	Thr	Ala	Phe	Gly	Arg	Ile	Trp	Leu	Ser	Val	Val	Phe	Val	Phe
		35					40					45			

Arg	Val	Leu	Val	Tyr	Val	Val	Ala	Ala	Glu	Arg	Val	Trp	Gly	Asp	Glu
	50					55					60				

Gln	Lys	Asp	Phe	Asp	Cys	Asn	Thr	Lys	Gln	Pro	Gly	Cys	Thr	Asn	Val
65					70					75					80

Cys	Tyr	Asp	Asn	Tyr	Phe	Pro	Ile	Ser	Asn	Ile	Arg	Leu	Trp	Ala	Leu
				85					90					95	

Gln	Leu	Ile	Phe	Val	Thr	Cys	Pro	Ser	Leu	Leu	Val	Ile	Leu	His	Val
			100					105					110		

Ala	Tyr	Arg	Glu	Glu	Arg	Glu	Arg	Arg	His	Arg	Gln	Lys	His	Gly	Asp
		115					120					125			

Gln	Cys	Ala	Lys	Leu	Tyr	Asp	Asn	Ala	Gly	Xaa	Lys	His	Gly	Gly	Leu
	130					135					140				

Trp	Trp	Thr	Tyr	Leu	Phe	Ser	Leu	Ile	Phe	Lys	Leu	Ile	Ile	Glu	Phe
145					150					155					160

Leu	Phe	Leu	Tyr	Leu	Leu	His	Thr	Leu	Trp	His	Gly	Phe	Asn	Met	Pro
				165					170					175	

Arg	Leu	Val	Gln	Cys	Ala	Asn	Val	Ala	Pro	Cys	Pro	Asn	Ile	Val	Asp
			180					185					190		

Cys	Tyr	Ile	Ala	Arg	Pro	Thr	Glu	Lys	Lys	Ile	Phe	Thr	Tyr	Phe	Met
		195					200					205			

Val	Gly	Ala	Ser	Ala	Val	Cys	Ile	Val	Leu	Thr	Ile	Cys	Glu	Leu	Cys
	210					215					220				

Tyr	Leu	Ile	Cys	His	Arg	Val	Leu	Arg	Gly	Leu	His	Lys	Asp	Lys	Pro
225					230					235					240

4337

Arg Gly Gly Cys Ser Pro Ser Ser Ser Ala Ser Arg Ala Ser Thr Cys
245 250 255

Arg Cys His His Lys Leu Val Glu Ala Gly Glu Val Asp Pro Asp Pro
260 265 270

Gly Asn Asn Lys Leu Gln Ala Ser Ala Pro Asn Leu Thr Xaa Ile
275 280 285

<210> 4766

$\langle 211 \rangle$ 90

<212> PRT

<213> Homo sapiens

<400> 4766

Cys Thr Pro Phe Leu Tyr Thr Glu Cys Gly Leu Leu Ser Glu Ile Gly
1 5 10 15

Ser Phe Met Val Leu Glu Pro Pro Leu Tyr Ser Cys Leu Lys Phe Pro
20 25 30

Ile Val Thr Glu Asn Ile Gly Cys Lys Ala Pro Gln Ser Pro Gln Val
35 40 45

Pro Ser Val Ser Leu Asn Val Leu Val Pro Ser Arg Lys Ala Ser Ala
50 55 60

Ser Ala Pro Phe Pro Pro Val Pro Ser Pro Arg Ile Met Asn Gly Tyr
65 70 75 80

Cys Thr Val Lys Thr Val Val Ser Phe His
85 90

<210> 4767

<211> 121

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4767

Xaa Ser Gly Gln Lys Pro Gly Val Leu Ile Leu Pro Ser Val Ser Val
1 5 10 15

4338

Leu Gly Ser Gly Phe Cys Arg His Pro Leu Thr Ser Ala Glu Leu Leu
 20 25 30
 Gly Leu Leu Pro Ala His His Ile Ala Tyr Leu Gln Cys Gln Ser Leu
 35 40 45
 Thr Val Thr Leu Ser Ala Leu Val Ser Leu Ala Glu Pro Arg Cys Pro
 50 55 60
 Cys Ser Arg Gly Gln Lys Ala Cys Thr Trp Ala Lys Gly Pro Lys Val
 65 70 75 80
 His Trp Thr Val Gly Lys Thr Pro Asp His His Leu Arg Thr Leu Ser
 85 90 95
 Gln Asn Gly Lys Phe Thr Arg Thr Pro Phe Leu Ser Leu Cys Glu Ser
 100 105 110
 Pro Arg Glu Arg His Cys Thr Asp Ile
 115 120

<210> 4768

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4768

Phe Arg Asp His Pro Cys Lys Phe Pro Lys Asp Phe Phe Asn Met Val
 1 5 10 15

Leu Leu Ile Gln Ser Gly Gln Leu Asn Leu Lys Ser Thr Pro Xaa Lys
 20 25 30

Pro Ser Gly Val Asp Asn Lys Ala His Lys Leu Arg Gln Phe Ser Phe

4339

35

40

45

Leu Xaa Pro Phe Arg Xaa Gly Thr Thr Thr Gly Ser
 50 55 60

<210> 4769

<211> 78

<212> PRT

<213> Homo sapiens

<400> 4769

Val Cys Asn Lys Ile Val Glu Ser Cys Met Ile Lys Ser Leu Leu Cys
 1 5 10 15

Ser Glu Ile His Ser Asp Phe Leu Val Ser Pro Tyr Ile Ile Cys Ile
 20 25 30

Leu Val Phe Phe Leu Thr Leu Leu Pro Leu Leu Pro Asn Arg Asp Leu
 35 40 45

Asn Leu Ser Leu Phe Ser Ser Ser Arg Pro Gly Leu Val Pro Asp Ser
 50 55 60

Ser Lys Asn Leu Asp Ser Lys Ala Tyr Phe Ile Val Cys Leu
 65 70 75

<210> 4770

<211> 36

<212> PRT

<213> Homo sapiens

<400> 4770

Gln Ala Arg Ile His Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
 1 5 10 15

Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
 20 25 30

Ser Ala Arg Asp
 35

<210> 4771

<211> 87

<212> PRT

<213> Homo sapiens

4340

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4771

Gly	Ile	Ser	Phe	Thr	Leu	Thr	His	Phe	Ala	Pro	Leu	Pro	Phe	Cys	Tyr
1				5					10					15	

Lys	Tyr	Tyr	His	Gly	Met	Lys	Gln	Lys	Ala	Cys	Tyr	Leu	Pro	Phe	His
			20				25					30			

Asp	His	Phe	Ala	Asp	Thr	Val	Ser	Ala	Thr	Ser	Lys	Pro	Ser	Asn	Ser
		35					40					45			

Met	Asn	Ser	Arg	Thr	Asp	Leu	Asn	Val	Val	Cys	Val	Gln	Gly	Ser	Tyr
	50					55					60				

Xaa	Asn	Phe	Leu	Asn	Leu	Lys	Cys	His	Gln	Lys	Thr	Phe	Cys	Ser	Leu
65					70					75					80

Leu	Leu	Leu	Phe	Phe	Phe	Phe
				85		

<210> 4772

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4772

Val	Trp	Leu	Ala	Leu	Ser	Val	Val	Gly	Ser	Val	Tyr	Thr	Pro	Pro	Phe
1				5					10					15	

Ser	Ser	Leu	Gly	Val	Phe	Phe	Arg	Asn	Pro	Lys	Ala	Thr	Leu	Arg	Ala
			20					25					30		

Val	Leu	Thr	Phe	Leu	Ser	Thr	Val	Asp	Tyr	Pro	Cys	Leu	Leu	Gly	Gly
		35					40					45			

Leu	Xaa	Met	Gly	Gln	Arg	Trp	Arg	Ser	Pro	Ser	Gly
	50					55					60

4341

<210> 4773

<211> 62

<212> PRT

<213> Homo sapiens

<400> 4773

Lys	Lys	Lys	Ser	Phe	Ser	Glu	Gly	Glu	Lys	Ile	Val	Trp	Val	Trp	Pro
1				5					10					15	

Leu	His	Ile	Leu	Ala	Asn	Tyr	Val	Ala	Ile	Phe	Met	Ala	Ser	Val	Ile
			20					25					30		

Lys	Thr	Leu	Leu	Leu	Gly	Ser	Arg	Ala	Val	Val	Leu	Asp	Ser	Leu	His
		35					40					45			

Ser	Ala	His	Leu	Leu	Lys	Ser	His	Glu	Ser	Ser	Leu	Glu	Ser
	50					55					60		

<210> 4774

<211> 87

<212> PRT

<213> Homo sapiens

<400> 4774

Thr	Ala	Gln	Gly	Ile	Gly	Cys	Thr	Lys	Leu	Val	Leu	Lys	Leu	Leu	Leu
1				5					10					15	

Gly	Ser	Pro	Gly	Ala	His	Val	Ser	His	Leu	Leu	Pro	Ile	His	Ile	Ser
			20					25					30		

Ala	His	Leu	Ala	Glu	Ala	Phe	Pro	Asp	Leu	Thr	Ser	Asp	Asn	Val	His
		35					40					45			

Val	Met	Asn	Thr	Pro	Lys	Trp	Leu	Gly	Leu	Leu	His	Leu	Ser	Arg	Trp
	50					55					60				

Ile	Leu	Pro	Gln	His	Trp	Gly	Phe	Leu	Trp	Ala	Val	His	His	Gly	Tyr
65					70					75					80

Ile	Ser	Gly	Phe	Gln	Asp	Cys
				85		

<210> 4775

<211> 70

<212> PRT

<213> Homo sapiens

4342

<400> 4775

Ala	Lys	Cys	Met	Leu	Lys	His	Val	Phe	Thr	Ser	Val	Lys	Ser	Phe	Val
1				5					10					15	
Asp	Leu	Leu	Glu	Met	Lys	Gly	Phe	Tyr	Leu	Asp	Thr	Val	Ser	Tyr	Thr
			20					25					30		
Ser	Leu	Thr	Ile	Ile	Phe	Val	Ile	Val	Val	Phe	Cys	Lys	Gln	Lys	Cys
		35					40					45			
Leu	Trp	Ala	Ser	Cys	Arg	Leu	Lys	Ile	Val	Gly	Lys	Asn	Gly	Leu	Ser
	50					55					60				
Ser	Gly	Pro	Phe	Lys	Gln										
65					70										

<210> 4776

<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4776

Leu	Asn	Gln	Met	Ile	Leu	Thr	Tyr	Tyr	Glu	Gly	Glu	Glu	Val	Asn	Ala
1				5					10					15	
Gly	Arg	Ile	Gly	Leu	Thr	Leu	Val	Val	Ala	Gly	Met	Val	Gly	Ser	Ile
			20					25					30		
Leu	Cys	Gly	Leu	Trp	Leu	Asp	Tyr	Thr	Lys	Thr	Tyr	Asn	Phe	Phe	Met
		35					40					45			
Thr	Gly	Tyr	Leu	Pro	Leu	Gly	Phe	Glu	Phe	Ala	Val	Glu	Ile	Thr	Tyr
	50					55					60				

4343

Pro Glu Ser Glu Gly Thr Ser Ser Gly Leu Leu Asn Ala Ser Ala Gln
 65 70 75 80

Ile Phe Gly Ile Leu Phe Thr Leu Ala Gln Gly Lys Leu Thr Ser Xaa
 85 90 95

Tyr Gly Pro Lys Ala Gly Asn Ile Xaa Leu Cys Val Trp Met Phe Ile
 100 105 110

Xaa Ile Ile Leu Thr Ala Leu Ile Lys Ser Asp Leu Arg Asp Thr Thr
 115 120 125

<210> 4777

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4777

Thr Asn Asp Tyr Lys Val Ser Val Gly Leu Trp Phe Arg Gly Pro Ser
 1 5 10 15

Xaa Ser Phe Leu Phe Pro Leu Ala Leu Met Arg Glu Met Pro Ser Ser
 20 25 30

Val Trp Ile Phe Leu Gly Ala Leu Trp Arg Asn Gly Val Cys Val Leu
 35 40 45

Thr Glu Glu Ser Gln Lys Xaa Glu Thr Ile Phe Ile Tyr Cys His His
 50 55 60

4344

Lys Tyr Ser Pro Pro Phe Lys Met Pro Val Tyr Thr Ala Ile Trp Glu
 65 70 75 80

Thr Xaa Val Leu Glu Glu Ala Gly Ala Glu Gly Val Lys Thr Ser Ser
 85 90 95

Val Gly

<210> 4778

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4778

Lys Gly Leu Phe Leu His Ile Tyr Ile Ile Tyr Val Tyr Ile Tyr Asn
 1 5 10 15

Ile Tyr Met Xaa Ile Tyr Ile Ile Tyr Ile Tyr Tyr Ile Tyr Asn Ile
 20 25 30

Tyr Ile Lys Tyr Ile Tyr Ile Cys Ser Pro Leu Ser Ala Ser Leu Ser
 35 40 45

Gln Gly Xaa Ser Val Gly Xaa Cys Leu Gly Pro Ala Ser Leu Leu Thr
 50 55 60

Ser Ser Ser Pro Leu Gly Thr Leu Ser Pro Tyr Ile Leu Ile Leu Asp
 65 70 75 80

4345

His Val Xaa Asn Cys Phe Trp Val Asn Val Asp Ile Ile Val Ile Ile
 85 90 95

Ile Ile Asn

<210> 4779

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4779

Gly Phe Lys Ile Gly Arg Lys Cys Ser Ser Gly Lys Met Cys Ala Val
 1 5 10 15

Gln Lys Thr His Lys Phe Phe Arg Lys Gln Leu Gly Pro Val Xaa Val
 20 25 30

Asp Gln Ile Glu Ser Pro Arg Ile Leu Gly Ser Ser Xaa Leu Met Asn
 35 40 45

Gly Phe Trp Leu Ile Leu Pro Val Leu Gln Phe Leu Leu Leu Cys Glu
 50 55 60

Met Gly Asn Thr Leu Ser Ala Ser Leu Arg Cys His Gly Asn Lys Gln
 65 70 75 80

Asn

<210> 4780

<211> 95

<212> PRT

<213> Homo sapiens

<400> 4780

4346

Ser Thr Leu Arg Pro Ala Ala Gly Lys Glu Trp Glu Gln Trp Leu Ser
 1 5 10 15
 Ala Ile Arg Ser Gly Ser Met Gly Gln Trp Leu Asp Phe Cys Pro Arg
 20 25 30
 Pro Glu Glu Cys Ala Val Leu Ala Ser Val Ser Pro Pro Val Ala Leu
 35 40 45
 Val Gln Glu Pro Thr Val Gly Cys Ser Leu Pro Gly Pro Leu Leu Leu
 50 55 60
 Trp Ile Leu Pro Thr Pro Ser Cys Ser Trp Gly Arg Pro Phe Ser Gln
 65 70 75 80
 Arg Ser Leu Asn Lys Pro Lys Asn Pro Gln Lys Lys Lys Lys Lys
 85 90 95

<210> 4781
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 4781
 Phe Ile Cys Thr Thr Phe Phe Arg Val Ala Ala Arg Thr Asn Leu Cys
 1 5 10 15
 Ala Leu Lys Cys Tyr Leu Leu Leu Ser Val Pro Lys Tyr Arg Glu Ile
 20 25 30
 Met Leu Gln Ile Ser Leu Leu Leu Asn Ile Met Leu Pro Asp Ala Phe
 35 40 45
 Ser Arg His
 50

<210> 4782
 <211> 455
 <212> PRT
 <213> Homo sapiens

<400> 4782
 Ser Asp Leu Leu Phe Leu Asn Tyr Arg Gln Leu Phe Gly Glu Glu Asp
 1 5 10 15
 Ala Asp Gln Glu Val Ser Pro Asp Arg Ala Asp Pro Glu Ala Ala Trp
 20 25 30

4347

Glu Pro Thr Glu Ala Glu Ala Arg Ala Arg Ala Ser Asn Glu Asp Gly
 35 40 45
 Asp Ile Lys Arg Ile Ser Thr Lys Glu Trp Ala Lys Ser Thr Gly Tyr
 50 55 60
 Asp Pro Val Lys Leu Phe Thr Lys Leu Phe Lys Asp Asp Ile Arg Tyr
 65 70 75 80
 Leu Leu Thr Met Asp Lys Leu Trp Arg Lys Arg Lys Pro Pro Val Pro
 85 90 95
 Leu Asp Trp Ala Glu Val Gln Ser Gln Gly Glu Glu Thr Asn Ala Ser
 100 105 110
 Asp Gln Gln Asn Glu Pro Gln Leu Gly Leu Lys Asp Gln Gln Val Leu
 115 120 125
 Asp Val Lys Ser Tyr Ala Arg Leu Phe Ser Lys Ser Ile Glu Thr Leu
 130 135 140
 Arg Val His Leu Ala Glu Lys Gly Asp Gly Ala Glu Leu Ile Trp Asp
 145 150 155 160
 Lys Asp Asp Pro Ser Ala Met Asp Phe Val Thr Ser Ala Ala Asn Leu
 165 170 175
 Arg Met His Ile Phe Ser Met Asn Met Lys Ser Arg Phe Asp Ile Lys
 180 185 190
 Ser Met Ala Gly Asn Ile Ile Pro Ala Ile Ala Thr Thr Asn Ala Val
 195 200 205
 Ile Ala Gly Leu Ile Val Leu Glu Gly Leu Lys Ile Leu Ser Gly Lys
 210 215 220
 Ile Asp Gln Cys Arg Thr Ile Phe Leu Asn Lys Gln Pro Asn Pro Arg
 225 230 235 240
 Lys Lys Leu Leu Val Pro Cys Ala Leu Asp Pro Pro Asn Pro Asn Cys
 245 250 255
 Tyr Val Cys Ala Ser Lys Pro Glu Val Thr Val Arg Leu Asn Val His
 260 265 270
 Lys Val Thr Val Leu Thr Leu Gln Asp Lys Ile Val Lys Glu Lys Phe
 275 280 285
 Ala Met Val Ala Pro Asp Val Gln Ile Glu Asp Gly Lys Gly Thr Ile
 290 295 300

4348

Leu Ile Ser Ser Glu Glu Gly Glu Thr Glu Ala Asn Asn His Lys Lys
 305 310 315 320

Leu Ser Glu Phe Gly Ile Arg Asn Gly Ser Arg Leu Gln Ala Asp Asp
 325 330 335

Phe Leu Gln Asp Tyr Thr Leu Leu Ile Asn Ile Leu His Ser Glu Asp
 340 345 350

Leu Gly Lys Asp Val Glu Phe Glu Val Val Gly Asp Ala Pro Glu Lys
 355 360 365

Val Gly Pro Lys Gln Ala Glu Asp Ala Ala Lys Ser Ile Thr Asn Gly
 370 375 380

Ser Asp Asp Gly Ala Gln Pro Ser Thr Ser Thr Ala Gln Glu Gln Asp
 385 390 395 400

Asp Val Leu Ile Val Asp Ser Asp Glu Glu Asp Ser Ser Asn Asn Ala
 405 410 415

Asp Val Ser Glu Glu Glu Arg Ser Arg Lys Arg Lys Leu Asp Glu Lys
 420 425 430

Glu Asn Leu Ser Ala Lys Arg Ser Arg Ile Glu Gln Lys Glu Glu Leu
 435 440 445

Asp Asp Val Ile Ala Leu Asp
 450 455

<210> 4783

<211> 78

<212> PRT

<213> Homo sapiens

<400> 4783

Lys His Arg Tyr Leu Val Leu Thr Gly Cys Ala Trp Leu Thr Gln Val
 1 5 10 15

His Leu Pro His Gly Lys Ser Ser Ser Lys Pro Leu His Asp Leu Trp
 20 25 30

Gly Ala Gly Ser Gln Phe Val Ala Cys Asp Leu Pro Gln Pro Gln Lys
 35 40 45

Ile Arg Asp His Glu Ala Pro Pro Pro Pro Gly Ser Gly Asn Leu Ile
 50 55 60

4349

His Ile Ala Arg Ala Leu Pro Val Arg Leu Trp Met Leu Thr
 65 70 75

<210> 4784

<211> 102

<212> PRT

<213> Homo sapiens

<400> 4784

Pro Ser Ser Pro Arg His Ile Ser Pro Arg Met Asn Ala Val Leu Ser
 1 5 10 15

Ala His Val Cys Val Glu Ala Ala Lys Val Gly Glu Leu Trp Ser Cys
 20 25 30

Pro Asp Pro Phe Gly Ile Ala Gly Pro Ser Ser His Trp Arg Ala Gly
 35 40 45

Val Gln Leu Thr Leu Gly Lys Glu Thr Ser Cys Leu Arg Val Ile Ser
 50 55 60

Cys Glu Cys Lys Ala Trp Gly Ser Gly Ser Leu Gly Gly Lys Glu Pro
 65 70 75 80

Val Arg Gly Leu Phe Pro Leu Ile Glu Leu Pro Arg Arg Ala Ser Ala
 85 90 95

Met Pro Glu Thr Gln Thr
 100

<210> 4785

<211> 87

<212> PRT

<213> Homo sapiens

<400> 4785

Glu Ile Pro Leu Leu Cys Phe Ala Ser Glu Ser Ser His Pro His Pro
 1 5 10 15

Gln Asn Cys Gly Ala Trp Trp Ala Leu Thr Ser Thr Pro Leu Leu Phe
 20 25 30

Ser Phe Ile Thr Phe Asp Leu Leu Lys Thr Ser Glu Arg Met Ser Val
 35 40 45

Lys Phe Phe Ser Pro Ser Ser Ser Leu Ser Ser Leu Lys Gly Arg Asp
 50 55 60

4350

Cys Ala Asn Thr Lys Gln Tyr Ser Phe Val Ser Ala Asn Ala Ser Val
 65 70 75 80

Asp Ile Pro Ile Gly Ile Lys
 85

<210> 4786

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4786

His Lys Glu Phe Xaa Arg Val Ser Gly Lys Lys Lys Lys Lys Lys Lys
 1 5 10 15

Lys Lys Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 20 25 30

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
 35 40 45

Val Val Leu Gln Arg Arg Asp Trp Xaa Asn Pro Gly Val Thr Gln Leu
 50 55 60

<210> 4787

<211> 56

<212> PRT

<213> Homo sapiens

<400> 4787

Asp Thr Val Leu Lys Lys Ile Lys Asn Cys Lys Lys Met Lys Lys Lys
 1 5 10 15

4351

Val Leu Ser Ile Ile Cys Ile Ile Gly Ile His Met Ser Leu His Lys
 20 25 30

Met Phe Asn Leu Lys Glu Ile Pro Leu Ile Leu Tyr Val Leu Leu Ser
 35 40 45

Val Val Cys Phe Ser Phe Ser Tyr
 50 55

<210> 4788

<211> 274

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4788

Thr Cys His Cys Leu Pro Pro Pro Pro Ala Arg Ala Met Thr Xaa Xaa
 1 5 10 15

Val Pro Arg Leu Ser Val Pro Ala Ala Leu Ala Leu Gly Ser Ala Ala
 20 25 30

Leu Gly Ala Ala Phe Ala Thr Gly Leu Phe Leu Gly Arg Arg Cys Pro
 35 40 45

Pro Trp Arg Gly Arg Arg Glu Gln Cys Leu Leu Pro Pro Glu Asp Xaa
 50 55 60

Arg Leu Trp Gln Tyr Leu Leu Ser Arg Ser Met Arg Glu His Pro Ala
 65 70 75 80

Leu Arg Ser Leu Arg Leu Leu Thr Leu Glu Gln Pro Gln Gly Asp Ser
 85 90 95

Met Met Thr Cys Glu Gln Ala Gln Leu Leu Ala Asn Leu Ala Arg Leu

4352

100										105					110				
Ile	Gln	Ala	Lys	Lys	Ala	Leu	Asp	Leu	Gly	Thr	Phe	Thr	Gly	Tyr	Ser				
		115					120					125							
Ala	Leu	Ala	Leu	Ala	Leu	Ala	Leu	Pro	Ala	Asp	Gly	Arg	Val	Val	Thr				
	130					135					140								
Cys	Glu	Val	Asp	Ala	Gln	Pro	Pro	Glu	Leu	Gly	Arg	Pro	Leu	Trp	Arg				
145					150					155					160				
Gln	Ala	Glu	Ala	Glu	His	Lys	Ile	Asp	Leu	Arg	Leu	Lys	Pro	Ala	Leu				
				165				170						175					
Glu	Thr	Leu	Asp	Glu	Leu	Leu	Ala	Ala	Gly	Glu	Ala	Gly	Thr	Phe	Asp				
		180					185						190						
Val	Ala	Val	Val	Asp	Ala	Asp	Lys	Glu	Asn	Cys	Ser	Ala	Tyr	Tyr	Glu				
	195						200					205							
Arg	Cys	Leu	Gln	Leu	Leu	Arg	Pro	Gly	Gly	Ile	Leu	Ala	Val	Leu	Arg				
	210					215					220								
Val	Leu	Trp	Arg	Gly	Lys	Val	Leu	Gln	Pro	Pro	Lys	Gly	Asp	Val	Ala				
225					230					235					240				
Ala	Glu	Cys	Val	Arg	Asn	Leu	Asn	Glu	Arg	Ile	Arg	Arg	Asp	Val	Arg				
				245					250					255					
Val	Tyr	Ile	Ser	Leu	Leu	Pro	Leu	Gly	Asp	Gly	Leu	Thr	Leu	Ala	Phe				
			260					265					270						
Lys	Ile																		

<210> 4789

<211> 177

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4789

Tyr	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro
1				5					10				15		

4353

Gly Ser Thr His Ala Ser Gly Ser Arg Phe Gln Ala Ser Ser Gln Leu
 20 25 30
 Arg Ala Gly Ser Trp Arg Pro Arg Pro Leu Pro Pro Val Val Pro Ala
 35 40 45
 Val Pro Asp Gly Ser Ala Met Ala Gln Pro Pro Pro Asp Val Glu Gly
 50 55 60
 Asp Asp Cys Leu Pro Ala Tyr Arg His Leu Phe Cys Pro Asp Leu Leu
 65 70 75 80
 Arg Asp Lys Val Ala Phe Ile Thr Gly Gly Gly Ser Gly Ile Gly Phe
 85 90 95
 Arg Ile Ala Glu Ile Phe Met Arg His Gly Cys His Thr Val Ile Ala
 100 105 110
 Ser Arg Ser Leu Pro Arg Val Leu Thr Ala Ala Arg Lys Leu Ala Gly
 115 120 125
 Ala Thr Gly Arg Arg Cys Leu Pro Leu Ser Met Asp Val Arg Xaa Pro
 130 135 140
 Pro Ala Val Met Ala Ala Val Asp Gln Ala Leu Lys Glu Phe Gly Arg
 145 150 155 160
 Ile Asp Ile Leu Ile Asn Cys Ala Ala Gly Asn Phe Leu Cys Pro Ala
 165 170 175

Gly

<210> 4790

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4790

Xaa His Leu His Pro Leu Pro Phe Gln Ser Phe Ala Ser Pro Pro His
 1 5 10 15

Leu Ala Ile Lys Leu His Glu Asp Phe Ser Ser Ser Gly Ser Ala Trp
 20 25 30

4354

Asn Leu Ser Tyr Ile Leu Pro Phe Pro Thr Cys Ser Leu Glu Cys Pro
 35 40 45

Phe His Lys Tyr Ala Pro Thr Ala Gly Ser Ile Phe Phe Ser Phe Arg
 50 55 60

His Leu
 65

<210> 4791

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4791

Ala Ile Ser Xaa Val Arg Thr Ser Asn Ser Pro Ile Leu Ser Tyr Val
 1 5 10 15

Xaa Ser Asn Lys Leu His His Leu Leu Thr Gly Phe Phe Ile Ser Val
 20 25 30

Ile Ile Val Phe Ile Ser Arg Tyr Ser Ile Cys Leu Lys Asn Ile Cys
 35 40 45

Met Ile Leu His Gly Phe Asn Ser Pro Asp Glu Tyr Xaa Ala Phe Asn
 50 55 60

His Pro Ser Thr
 65

<210> 4792

4355

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4792

Thr	Xaa	Phe	Phe	Leu	Met	Lys	Cys	Ile	Val	Phe	Pro	Leu	Ala	Leu	Lys
1				5					10					15	

Xaa	His	Ile	Trp	Cys	Gln	Ala	Val	Leu	Leu	Xaa	Leu	Thr	Gly	Glu	Trp
			20					25					30		

Gln	Leu	Cys	Leu	Leu	Ser	Ala	Ser	Pro	Ala	Val	Pro	Ala	Val	Ser	Gly
		35					40					45			

Thr	Cys	Ile	Met	Thr	Arg	Leu	His	Phe	Pro	Pro	Ile	Xaa	Xaa	Gln	Arg
	50						55				60				

Phe	Trp	Glu	Glu	Glu	Cys	Asp	Cys	Met	Ala	Arg	Ser	Leu	Gln	Pro	Gln
65						70				75				80	

Ser Ala Ala Cys

<210> 4793

4356

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4793

Gly	Ser	Val	Leu	His	His	Pro	His	Ala	Thr	Pro	Thr	Thr	His	Arg	Cys
1				5					10					15	

Thr	Ala	Thr	Val	Thr	Gly	Ala	Ser	Cys	Leu	Arg	Met	Gly	Leu	Arg	Val
			20					25					30		

Ile	Asn	Phe	Phe	Lys	Gly	Tyr	Ile	Xaa	Ile	Ala	Tyr	Xaa	Ile	Gln	Ile
		35					40					45			

Lys	Gly	Pro	Glu	Phe	Xaa	Ala	Asn	Cys	Thr	Tyr	Leu	Phe	Ala	Asn	Leu
	50					55					60				

Xaa	His	His	Arg	Lys	Pro	Lys	Asp	Ser	Xaa	Cys	Gly	Gln	Ser	Phe	Thr
65					70					75					80

Leu	Gln	Ser	Leu	Lys	Tyr	Phe	Phe
				85			

<210> 4794

4357

<211> 26

<212> PRT

<213> Homo sapiens

<400> 4794

Arg	Ser	Ser	Leu	Phe	His	Gln	Ala	Gly	Val	Gln	Trp	His	Asp	Leu	Ser
1				5					10					15	
Ser	Leu	Gln	Ser	Pro	Pro	Pro	Gln	Phe	Lys						
			20					25							

<210> 4795

<211> 404

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (310)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4795

Ile	Asp	Arg	Glu	Leu	Ser	Pro	Glu	Gly	Pro	Gly	Lys	Glu	Lys	Glu	Leu
1				5					10					15	
Pro	Gly	Gln	Thr	Leu	His	Trp	Gly	Pro	Glu	Ala	Thr	Glu	Ala	Ala	Gly
			20					25					30		
Arg	Gly	Leu	Gln	Pro	Leu	Lys	Leu	Asp	Tyr	Arg	Ala	Leu	Ala	Ala	Val
		35					40					45			
Pro	Ser	Ala	Gly	Ser	Val	Gln	Arg	Val	Pro	Ser	Gly	Ala	Ala	Gly	Gly
	50					55					60				
Lys	Met	Ala	Glu	Ser	Pro	Cys	Ser	Pro	Ser	Gly	Gln	Gln	Pro	Pro	Ser
65					70					75					80
Pro	Pro	Ser	Pro	Asp	Glu	Leu	Pro	Ala	Asn	Val	Lys	Gln	Ala	Tyr	Arg
				85					90					95	
Ala	Phe	Ala	Ala	Val	Pro	Thr	Ser	His	Pro	Pro	Glu	Asp	Ala	Pro	Ala
			100					105					110		
Gln	Pro	Pro	Thr	Pro	Gly	Pro	Ala	Ala	Ser	Pro	Glu	Gln	Leu	Ser	Phe
		115					120					125			
Arg	Glu	Arg	Gln	Lys	Tyr	Phe	Glu	Leu	Glu	Val	Arg	Val	Pro	Gln	Ala
	130					135					140				

4358

Glu	Gly	Pro	Pro	Lys	Arg	Val	Ser	Leu	Val	Gly	Ala	Asp	Asp	Leu	Arg	145	150	155	160
Lys	Met	Gln	Glu	Glu	Glu	Ala	Arg	Lys	Leu	Gln	Gln	Lys	Arg	Ala	Gln	165	170	175	
Met	Leu	Arg	Glu	Ala	Ala	Glu	Ala	Gly	Ala	Glu	Ala	Arg	Leu	Ala	Leu	180	185	190	
Asp	Gly	Glu	Thr	Leu	Gly	Glu	Glu	Glu	Gln	Glu	Asp	Glu	Gln	Pro	Pro	195	200	205	
Trp	Ala	Ser	Pro	Ser	Pro	Thr	Ser	Arg	Gln	Ser	Pro	Ala	Ser	Pro	Pro	210	215	220	
Pro	Leu	Gly	Gly	Gly	Ala	Pro	Val	Arg	Thr	Ala	Lys	Ala	Glu	Arg	Arg	225	230	235	240
His	Gln	Glu	Arg	Leu	Arg	Val	Gln	Ser	Pro	Glu	Pro	Pro	Ala	Pro	Glu	245	250	255	
Arg	Ala	Leu	Ser	Pro	Ala	Glu	Leu	Arg	Ala	Leu	Glu	Ala	Glu	Lys	Arg	260	265	270	
Ala	Leu	Trp	Arg	Ala	Ala	Arg	Met	Lys	Ser	Leu	Glu	Gln	Asp	Ala	Leu	275	280	285	
Arg	Ala	Gln	Met	Val	Leu	Ser	Arg	Ser	Gln	Glu	Gly	Arg	Gly	Thr	Arg	290	295	300	
Gly	Pro	Leu	Glu	Arg	Xaa	Ala	Glu	Ala	Pro	Ser	Pro	Ala	Pro	Thr	Pro	305	310	315	320
Ser	Pro	Thr	Pro	Val	Glu	Asp	Leu	Gly	Pro	Gln	Thr	Ser	Thr	Ser	Pro	325	330	335	
Gly	Arg	Leu	Ser	Pro	Asp	Phe	Ala	Glu	Glu	Leu	Arg	Ser	Leu	Glu	Pro	340	345	350	
Ser	Pro	Ser	Pro	Gly	Pro	Gln	Glu	Glu	Asp	Gly	Glu	Val	Ala	Leu	Val	355	360	365	
Leu	Leu	Gly	Arg	Pro	Ser	Pro	Gly	Ala	Val	Gly	Pro	Glu	Asp	Val	Ala	370	375	380	
Leu	Cys	Ser	Ser	Arg	Arg	Pro	Val	Arg	Pro	Gly	Arg	Arg	Gly	Leu	Gly	385	390	395	400
Pro	Val	Pro	Ser																

4359

<210> 4796

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4796

Gly	Xaa	Lys	Ser	Trp	Ser	Ser	Thr	Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu
1				5					10					15	

Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg	Val	Cys	Leu	Phe	Arg
			20					25					30		

Leu	Lys	Phe	Phe	Leu	Lys	Cys	Leu	Val	Ile	Pro	Gly	Phe	Leu	Leu	Ile
		35					40					45			

Ile	Lys	Glu	Lys	Asn	Ala	Asp	Ser	Leu	Asp	Pro	Gly	Arg	Ala	Ser	Leu
	50					55					60				

Pro	Asp	Cys	Arg	Leu	Ala	Ser	Gly	Ile	His	Gly	Phe	Pro	Lys	Cys	
65					70					75					

<210> 4797

<211> 97

<212> PRT

<213> Homo sapiens

<400> 4797

Pro	Pro	Pro	Ser	Leu	Ser	Phe	Ser	Ser	Ser	Val	Phe	Leu	Leu	Ser	Ser
1				5						10				15	

Phe	Phe	Pro	Ser	Pro	Ser	Ser	Ile	Ala	Thr	Phe	Ser	Pro	Thr	Arg	Thr
			20					25					30		

Gln	Ala	Tyr	Lys	Arg	Arg	Phe	Leu	Met	Leu	Leu	Cys	Leu	Leu	Thr	Pro
		35					40					45			

Leu	Phe	Ser	Cys	Phe	Gln	Gln	Val	Phe	Leu	Pro	Pro	Val	Pro	Gln	Leu
	50					55					60				

Leu	Leu	Leu	Leu	Arg	Arg	Ser	Asp	Leu	Pro	Leu	Met	Val	Ile	Pro	Ala
65					70					75					80

4360

Pro Leu Arg Pro Thr Ser Ala Lys Lys Glu Lys Val Lys Gln Gln Gln
85 90 95

Gln

<210> 4798

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4798

Ala Ser Tyr Tyr Met Xaa Leu His Phe Pro Gln Trp Phe Val His Ser
1 5 10 15

Ser Ala Leu Gly Leu Val Leu Ala Pro Pro Phe Ser Ser Pro Gly Thr
20 25 30

Asp Pro Thr Phe Pro Cys Ile Tyr Cys Arg Leu Leu Asn Met Ile Met
35 40 45

Thr Arg Leu Ala Phe Ser Phe Ile Thr Cys Leu Cys Pro Asn Leu Lys
50 55 60

Glu Val Cys Leu Ile Leu Pro Glu Lys Asn Cys Asn Ser Arg His Ala
65 70 75 80

Gly Phe Val Gly Pro Ala Lys Leu Arg Gln
85 90

<210> 4799

<211> 52

<212> PRT

<213> Homo sapiens

<400> 4799

His Cys Tyr His Ser His Ala Lys His Trp Leu His Thr Cys Ser Leu
1 5 10 15

Phe Val Ile Asn Ile Lys Arg Leu Asp Leu Lys Pro Ser Ile Asn Glu
20 25 30

4361

Arg Pro Phe Ile Trp His Ser Trp Asn Lys Thr Leu His Arg Tyr Gln
35 40 45

Pro Leu His Ser
50

<210> 4800

<211> 90

<212> PRT

<213> Homo sapiens

<400> 4800

Phe Val Gly Leu Thr Leu Pro Phe Ser Phe Ser Leu Glu Cys Leu Leu
1 5 10 15

Gly Tyr Ala Leu Val Gly Leu Met Ser Phe Leu Gly Leu Gly Gly Val
20 25 30

Cys Val Trp Leu Val Trp Gly Thr Phe Arg Gly Ser Ser Cys Thr Phe
35 40 45

Pro Leu Leu Ser Val Cys Ser Ser Leu His Leu Leu Phe Val Cys Val
50 55 60

His Phe Phe Ser Glu Gln Ser Phe Ser Leu Ala Thr Leu Ser Ser Leu
65 70 75 80

Thr Val Phe Leu Phe Ser Ser Ser Leu Arg
85 90

<210> 4801

<211> 78

<212> PRT

<213> Homo sapiens

<400> 4801

Leu Lys Leu Lys Arg Arg Gln Gly Ser Ile Gln Ala Glu Pro Val Leu
1 5 10 15

Val	Gln	Thr	Lys	Asn	Leu	Thr	Gly	Thr	Met	Glu	Gly	Ser	Ser	Ser	Pro
			20					25					30		

Leu Leu Thr Phe Tyr Val Met Glu Arg Leu Glu Leu Ile Lys Val Leu
35 40 45

Pro Phe Phe Tyr Ser Pro Glu Tyr Gln Arg Gln Leu Lys Ser Ala Thr
50 55 60

4362

Asn Asp Leu Pro Val Ser Cys Phe Ile Phe Val Ile Asp Phe
65 70 75

<210> 4802

<211> 46

<212> PRT

<213> Homo sapiens

<400> 4802

Val Pro Ala Thr Thr Pro Gly Gln Tyr Leu Tyr Phe Leu Trp Arg Arg
1 5 10 15

Gly Phe Ala Met Leu Ala Arg Leu Val Ser Asn Tyr Trp Ala Gln Val
20 25 30

Ile His Pro Pro Gln Pro Pro Lys Val Leu Arg Leu Gln Ala
35 40 45

<210> 4803

<211> 86

<212> PRT

<213> Homo sapiens

<400> 4803

Trp Val Pro Leu Leu Phe Ala Phe Ser Phe Ser Glu Asn Val Cys Val
1 5 10 15

Leu Pro Leu Phe Trp Leu His Leu Gln Asn Ile Ser Phe Val Pro Met
20 25 30

Tyr Met Cys Lys His Ala Ile Ala Cys Val Val Gly Val Leu Tyr Phe
35 40 45

Val Trp Glu Lys Asn Tyr Gln Asn Glu Glu Glu Asn Phe Pro Tyr Leu
50 55 60

Cys Thr Arg Phe Leu Cys Phe Phe Phe Glu Phe Ser Gly Val Asp Ile
65 70 75 80

Asn Leu Ile Pro Ser Trp
85

<210> 4804

<211> 71

4363

<212> PRT

<213> Homo sapiens

<400> 4804

Leu Trp Gln Asn Leu Phe Trp His Asn His Ile Cys Ser Leu Tyr Lys
 1 5 10 15

Ile Ser Phe Leu Cys Phe Arg Lys Asn Val Ser Tyr Tyr Ser Glu Ser
 20 25 30

Cys Asp Ser Asp Ser Ser Trp Phe Gly Ala Gln Lys Phe Leu Asn Met
 35 40 45

Ser Leu Leu Leu Val Lys His Arg Ile Cys Phe Leu Gln Lys Phe Ile
 50 55 60

Phe Asn Glu Glu Tyr Leu Ser
 65 70

<210> 4805

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4805

Ala Leu His Thr Cys Trp Tyr Leu Leu Ala Asn Cys Ala Ala Leu Thr
 1 5 10 15

Cys His Leu Ser Leu Cys Pro Asn Thr Thr Thr Val Ala Thr Val Pro
 20 25 30

Thr Thr Ile Pro Thr Val Thr Leu Val Ile Ala Tyr Ser Ala Thr Asn
 35 40 45

4364

Ser Pro Cys Gly Ser Thr Ser Met Leu Gly Leu Leu Ala Leu Pro Ser
 50 55 60

Met Ser Thr Tyr Met Ala Ala Ser Ala Tyr Thr Thr Xaa Leu Leu Thr
 65 70 75 80

Phe Thr Leu Val Gly Thr Leu Asn Leu Ala Ile Val Arg Leu Leu Ser
 85 90 95

Ser Asn Arg Leu Thr Cys Asn Asn Xaa Xaa
 100 105

<210> 4806

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4806

Trp Asp Cys Arg His Pro Pro Ser Cys Pro Ala Lys Phe Cys Thr Phe
 1 5 10 15

Val Glu Met Glu Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu
 20 25 30

Thr Ser Gly Asp Leu Pro Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr
 35 40 45

Gly Val Ser His His Ala Trp Thr Xaa Cys Cys Cys Cys Phe
 50 55 60

<210> 4807

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4365

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4807

Met	Lys	Glu	Asp	Leu	Phe	Ser	Leu	Arg	Ser	Val	Cys	Gly	Val	Ser	Cys
1				5				10						15	

Pro	Gly	Leu	Leu	Ser	Glu	Val	Trp	Pro	Gln	Gly	Leu	Arg	Glu	Val	Ala
			20					25					30		

Arg	Thr	Pro	Gln	Gly	Gly	Pro	His	His	Arg	Gly	Cys	Cys	Pro	Thr	Gly
		35					40					45			

Ser	Ser	Pro	Xaa	Ser	Gly	Thr	Leu	Pro	Xaa	Ser	Leu	Trp	Glu	Gly	Glu
	50					55					60				

Met	Ala	Thr	Gly	Leu	Glu	Asn	Arg	His	Pro	Val
65					70				75	

<210> 4808

<211> 187

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4808

Gly	Leu	Val	Gly	Pro	Leu	Leu	Val	Cys	Arg	Ala	Gly	Ala	Leu	Gly	Ala
1				5				10					15		

Asp	Gly	Lys	Gln	Lys	Gly	Val	Asp	Lys	Glu	Phe	Phe	Leu	Leu	Phe	Thr
			20					25					30		

Val	Leu	Asp	Glu	Asn	Lys	Ser	Trp	Tyr	Ser	Asn	Ala	Asn	Gln	Ala	Ala
		35					40					45			

4366

Ala Met Leu Asp Phe Arg Leu Leu Ser Glu Asp Ile Glu Gly Phe Gln
 50 55 60
 Asp Ser Asn Arg Met His Ala Ile Asn Gly Phe Leu Phe Ser Asn Leu
 65 70 75 80
 Pro Arg Leu Asp Met Cys Lys Gly Asp Thr Val Ala Trp His Leu Leu
 85 90 95
 Gly Leu Gly Thr Glu Thr Asp Val His Gly Val Met Phe Gln Gly Asn
 100 105 110
 Thr Val Gln Leu Gln Gly Met Arg Lys Gly Ala Ala Met Leu Phe Pro
 115 120 125
 His Thr Phe Val Met Ala Ile Met Gln Pro Asp Asn Leu Gly Thr Phe
 130 135 140
 Glu Ile Tyr Cys Gln Ala Gly Lys Pro Ser Arg Thr Xaa Met Lys Ala
 145 150 155 160
 Ile Tyr Asn Gly Ser Asn Xaa Leu Gly Thr Lys Pro Pro Xaa Ala Thr
 165 170 175
 Leu Pro Thr Cys Lys Asn Leu Leu Phe His Gly
 180 185

<210> 4809

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4809

Ala Ile Pro Leu Thr Asn Asp Gly Val Pro Ser Glu Ser Ser Ala Gly
 1 5 10 15
 Arg Leu Leu Cys Val Gly Arg Leu Gly Leu Gly Arg Gly Leu Ser Pro
 20 25 30
 Asn Leu Gly Pro Ala Glu Gln Glu Gln Asn His Tyr Leu Ala Gln Leu
 35 40 45
 Phe Gly Leu Tyr Gly Glu Asn Gly Thr Leu Thr Ala Gly Gly Leu Ala
 50 55 60

4367

Arg Leu Leu His Ser Leu Gly Leu Gly Arg Val Gln Gly Leu Arg Leu
 65 70 75 80
 Gly Gln His Gly Pro Leu Thr Gly Arg Ala Ala Ser Pro Ala Ala Asp
 85 90 95
 Asn Ser Thr His Arg Pro Gln Asn Pro Glu Leu Ser Val Asp Val Trp
 100 105 110
 Ala Gly Met Pro Leu Gly Pro Ser Gly Trp Gly Asp Leu Glu Xaa
 115 120 125

<210> 4810

<211> 216

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (197)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (215)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4810

Ala Ser Met Asp Pro Asp Ser Asp Gln Pro Leu Asn Ser Leu Asp Val
 1 5 10 15
 Lys Pro Leu Arg Lys Pro Arg Ile Pro Ile Ile Ile Ala Leu Leu Ser
 20 25 30
 Leu Ala Ser Ile Ile Ile Val Val Val Leu Ile Lys Val Ile Leu Asp
 35 40 45
 Lys Tyr Tyr Phe Leu Cys Gly Gln Pro Leu His Phe Ile Pro Arg Lys
 50 55 60
 Gln Leu Cys Asp Gly Glu Leu Asp Cys Pro Leu Gly Glu Asp Glu Glu
 65 70 75 80

4368

His Cys Val Lys Ser Phe Pro Glu Gly Pro Xaa Val Ala Val Arg Leu
 85 90 95
 Ser Lys Asp Arg Ser Thr Leu Gln Val Leu Asp Ser Ala Thr Gly Asn
 100 105 110
 Trp Phe Ser Ala Cys Phe Asp Asn Phe Thr Glu Ala Leu Ala Glu Thr
 115 120 125
 Ala Cys Arg Gln Met Gly Tyr Ser Ser Lys Pro Thr Phe Arg Ala Val
 130 135 140
 Glu Ile Gly Pro Asp Gln Asp Leu Asp Val Val Glu Ile Thr Glu Asn
 145 150 155 160
 Ser Gln Glu Leu Arg Met Arg Asn Ser Ser Gly Pro Cys Leu Ser Gly
 165 170 175
 Ser Leu Val Ser Leu His Cys Leu Ala Cys Gly Lys Ser Leu Lys Thr
 180 185 190
 Pro Arg Val Val Xaa Gly Glu Glu Ala Ser Val Asp Ser Trp Pro Trp
 195 200 205
 Gln Val Ser Ile Gln Tyr Xaa Lys
 210 215

<210> 4811
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 4811
 Ser Ser Asn Thr Phe Arg Leu Gln Val Gln Thr Gln Glu Ser Lys Ala
 1 5 10 15
 Gln Lys Glu Leu Glu Arg Gln Leu Ile Met Gln Ser Glu Met Arg Glu
 20 25 30
 Arg Gln Met Ala Met Gln Ile Ala Trp Ser Arg Glu Phe Leu Lys Tyr
 35 40 45
 Phe Gly Thr Phe Phe Gly Leu Ala Ala Ile Ser Leu Thr Ala Gly Ala
 50 55 60
 Ile Lys Lys Lys Lys Pro Ala Phe Leu Val Pro Ile Val Pro Leu Ser
 65 70 75 80
 Phe Ile Leu Thr Tyr Gln Tyr Asp Leu Gly Tyr Gly Thr Leu Leu Glu

4369

				85						90					95	
Arg	Met	Lys	Gly	Glu	Ala	Glu	Asp	Ile	Leu	Glu	Thr	Glu	Lys	Ser	Lys	
			100					105					110			
Leu	Gln	Leu	Pro	Arg	Gly	Met	Ile	Thr	Phe	Glu	Ser	Ile	Glu	Lys	Ala	
		115					120					125				
Arg	Lys	Glu	Gln	Ser	Arg	Phe	Phe	Ile	Asp	Lys						
	130					135										

<210> 4812

<211> 121

<212> PRT

<213> Homo sapiens

<400> 4812

Gly	Arg	Phe	Ala	Pro	Ser	Pro	Pro	Pro	Ala	Leu	Pro	Gly	Asn	Pro	Leu
1				5					10					15	
Lys	Met	Arg	Pro	Pro	Val	Leu	Arg	Glu	Pro	Gly	Ala	Pro	Ala	Ser	Ala
			20					25					30		
Pro	Ala	Gln	Pro	Leu	Pro	Gly	Ala	Asp	Pro	Gly	Trp	Asp	Phe	Gly	Gly
		35					40					45			
Pro	Ser	Leu	Ser	Pro	Leu	Arg	Glu	Asn	Arg	Pro	Gly	Arg	Cys	Gly	Glu
	50					55					60				
Gly	Pro	Arg	Ala	Ile	Leu	Ala	Gly	Gly	Ala	Gly	Arg	Arg	Thr	Arg	Ala
65					70					75					80
Arg	Arg	Pro	Ser	Pro	Ala	Arg	Thr	Ser	Ser	Arg	Gln	Ser	Ser	Gly	Lys
				85					90					95	
Gly	Ser	Leu	Phe	Phe	Ser	Leu	Gly	Lys	Ile	Lys	Ser	Pro	Arg	Glu	Asn
		100						105					110		
Lys	Ala	Gly	Lys	Gly	Ala	Pro	Phe	Leu							
		115					120								

<210> 4813

<211> 364

<212> PRT

<213> Homo sapiens

<220>

4370

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (250)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4813

Asp	Gly	Gly	Xaa	Xaa	Thr	Gln	Trp	Ala	Xaa	Glu	Phe	Pro	Phe	Asp	Val
1				5					10					15	

Asp	Ala	Leu	Phe	Pro	Glu	Arg	Ile	Thr	Val	Leu	Asp	Gln	His	Leu	Arg
		20						25					30		

Pro	Pro	Ala	Arg	Arg	Pro	Gly	Thr	Thr	Thr	Pro	Ala	Arg	Val	Asp	Leu
		35					40					45			

Gln	Gln	Gln	Ile	Met	Thr	Ile	Ile	Asp	Glu	Leu	Gly	Lys	Ala	Ser	Ala
	50					55					60				

Lys	Ala	Gln	Asn	Leu	Ser	Ala	Pro	Ile	Thr	Ser	Ala	Ser	Arg	Met	Gln
65					70					75					80

Ser	Asn	Arg	His	Val	Val	Tyr	Ile	Leu	Lys	Asp	Ser	Ser	Ala	Arg	Pro
				85					90					95	

Ala	Gly	Lys	Gly	Ala	Ile	Ile	Gly	Phe	Ile	Lys	Val	Gly	Tyr	Lys	Lys
			100					105					110		

Leu	Phe	Val	Leu	Asp	Asp	Arg	Glu	Ala	His	Asn	Glu	Val	Glu	Pro	Leu
			115				120					125			

Cys	Ile	Leu	Asp	Phe	Tyr	Ile	His	Glu	Ser	Val	Gln	Arg	His	Gly	His
	130					135					140				

Gly	Arg	Glu	Leu	Phe	Gln	Tyr	Met	Leu	Gln	Lys	Glu	Arg	Val	Glu	Pro
145					150					155				160	

His	Gln	Leu	Ala	Ile	Asp	Arg	Pro	Ser	Gln	Lys	Leu	Leu	Lys	Phe	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4371

165				170				175							
Asn	Lys	His	Tyr	Asn	Leu	Glu	Thr	Thr	Val	Pro	Gln	Val	Asn	Asn	Phe
180				185				190							
Val	Ile	Phe	Glu	Gly	Phe	Phe	Ala	His	Gln	His	Arg	Pro	Pro	Ala	Pro
195				200				205							
Ser	Leu	Arg	Ala	Thr	Arg	His	Ser	Arg	Ala	Ala	Ala	Val	Asp	Pro	Thr
210				215				220							
Pro	Ala	Ala	Pro	Ala	Arg	Lys	Leu	Pro	Pro	Lys	Arg	Ala	Glu	Gly	Asp
225				230				235				240			
Ile	Lys	Pro	Tyr	Ser	Ser	Ser	Asp	Arg	Xaa	Phe	Leu	Lys	Val	Ala	Val
245				250				255							
Glu	Pro	Pro	Trp	Pro	Leu	Asn	Arg	Ala	Pro	Arg	Arg	Ala	Thr	Pro	Pro
260				265				270							
Ala	His	Pro	Pro	Pro	Arg	Ser	Ser	Ser	Leu	Gly	Asn	Ser	Pro	Glu	Arg
275				280				285							
Gly	Pro	Leu	Arg	Pro	Phe	Val	Pro	Glu	Gln	Glu	Leu	Leu	Arg	Ser	Leu
290				295				300							
Arg	Leu	Cys	Pro	Pro	His	Pro	Thr	Ala	Arg	Leu	Leu	Leu	Ala	Ala	Asp
305				310				315				320			
Pro	Gly	Gly	Ser	Pro	Ala	Gln	Arg	Arg	Arg	Thr	Ser	Ser	Leu	Pro	Arg
325				330				335							
Ser	Glu	Glu	Ser	Arg	Tyr	Leu	Thr	Ala	Tyr	Pro	Ser	Pro	Cys	Pro	Gly
340				345				350							
Gly	Asp	Leu	Gly	Val	Gly	Gln	Gly	Asn	Pro	Phe	Ser				
355				360											

<210> 4814

<211> 145

<212> PRT

<213> Homo sapiens

<400> 4814

Asn Thr Ala Lys Phe Thr Asn Cys Thr Cys Cys Ile Val Lys Pro His
1 5 10 15

Ala Val Ser Glu Gly Leu Leu Gly Lys Ile Leu Met Ala Ile Arg Asp
20 25 30

4372

Ala Gly Phe Glu Ile Ser Ala Met Gln Met Phe Asn Met Asp Arg Val
 35 40 45
 Asn Val Glu Glu Phe Tyr Glu Val Tyr Lys Gly Val Val Thr Glu Tyr
 50 55 60
 His Asp Met Val Thr Glu Met Tyr Ser Gly Pro Cys Val Ala Met Glu
 65 70 75 80
 Ile Gln Gln Asn Asn Ala Thr Lys Thr Phe Arg Glu Phe Cys Gly Pro
 85 90 95
 Ala Asp Pro Glu Ile Ala Arg His Leu Arg Pro Gly Thr Leu Arg Ala
 100 105 110
 Ile Phe Gly Lys Thr Lys Ile Gln Asn Ala Val His Cys Thr Asp Leu
 115 120 125
 Pro Glu Asp Gly Leu Leu Glu Val Gln Tyr Phe Phe Lys Ile Leu Asp
 130 135 140
 Asn
 145

<210> 4815

<211> 404

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4815

Gln Asn Val Ile Met Phe Val Gly Leu Gln Gly Ser Gly Xaa Thr Thr
 1 5 10 15
 Thr Cys Ser Lys Leu Ala Tyr Tyr Tyr Gln Arg Lys Gly Trp Lys Thr
 20 25 30
 Cys Leu Ile Cys Ala Asp Thr Phe Arg Ala Gly Ala Phe Asp Gln Leu
 35 40 45
 Lys Gln Asn Ala Thr Lys Ala Arg Ile Pro Phe Tyr Gly Ser Tyr Thr
 50 55 60
 Glu Met Asp Pro Val Ile Ile Ala Ser Glu Gly Val Glu Lys Phe Lys

4373

65					70						75					80
Asn	Glu	Asn	Phe	Glu	Ile	Ile	Ile	Val	Asp	Thr	Ser	Gly	Arg	His	Lys	
				85					90					95		
Gln	Glu	Asp	Ser	Leu	Phe	Glu	Glu	Met	Leu	Gln	Val	Ala	Asn	Ala	Ile	
			100					105					110			
Gln	Pro	Asp	Asn	Ile	Val	Tyr	Val	Met	Asp	Ala	Ser	Ile	Gly	Gln	Ala	
		115					120					125				
Cys	Glu	Ala	Gln	Ala	Lys	Ala	Phe	Lys	Asp	Lys	Val	Asp	Val	Ala	Ser	
	130					135					140					
Val	Ile	Val	Thr	Lys	Leu	Asp	Gly	His	Ala	Lys	Gly	Gly	Gly	Ala	Leu	
145					150					155					160	
Ser	Ala	Val	Ala	Ala	Thr	Lys	Ser	Pro	Ile	Ile	Phe	Ile	Gly	Thr	Gly	
				165					170					175		
Glu	His	Ile	Asp	Asp	Phe	Glu	Pro	Phe	Lys	Thr	Gln	Pro	Phe	Ile	Ser	
			180					185					190			
Lys	Leu	Leu	Gly	Met	Gly	Asp	Ile	Glu	Gly	Leu	Ile	Asp	Lys	Val	Asn	
		195					200					205				
Glu	Leu	Lys	Leu	Asp	Asp	Asn	Glu	Ala	Leu	Ile	Glu	Lys	Leu	Lys	His	
	210					215					220					
Gly	Gln	Phe	Thr	Leu	Arg	Asp	Met	Tyr	Glu	Gln	Phe	Gln	Asn	Ile	Met	
225					230					235					240	
Lys	Met	Gly	Pro	Phe	Ser	Gln	Ile	Leu	Gly	Met	Ile	Pro	Gly	Phe	Gly	
				245					250					255		
Thr	Asp	Phe	Met	Ser	Lys	Gly	Asn	Glu	Gln	Glu	Ser	Met	Ala	Arg	Leu	
			260					265					270			
Lys	Lys	Leu	Met	Thr	Ile	Met	Asp	Ser	Met	Asn	Asp	Gln	Glu	Leu	Asp	
		275					280					285				
Ser	Thr	Asp	Gly	Ala	Lys	Val	Phe	Ser	Lys	Gln	Pro	Gly	Arg	Ile	Gln	
	290					295					300					
Arg	Val	Ala	Arg	Gly	Ser	Gly	Val	Ser	Thr	Arg	Asp	Val	Gln	Glu	Leu	
305					310					315					320	
Leu	Thr	Gln	Tyr	Thr	Lys	Phe	Ala	Gln	Met	Val	Lys	Lys	Met	Gly	Gly	
				325					330					335		
Ile	Lys	Gly	Leu	Phe	Lys	Gly	Gly	Asp	Met	Ser	Lys	Asn	Val	Ser	Gln	

4374

340 345 350
 Ser Gln Met Ala Lys Leu Asn Gln Gln Met Ala Lys Met Met Asp Pro
 355 360 365
 Arg Val Leu His His Met Gly Gly Met Ala Gly Leu Gln Ser Met Met
 370 375 380
 Arg Gln Phe Gln Gln Gly Ala Ala Gly Asn Met Lys Gly Met Met Gly
 385 390 395 400
 Phe Asn Asn Met

<210> 4816

<211> 66

<212> PRT

<213> Homo sapiens

<400> 4816

Ser Leu Ile Ser Leu Tyr Phe Ser Phe Phe Val Cys Glu Tyr Tyr Pro
 1 5 10 15
 Tyr Thr Thr Thr Pro Lys Thr Ser Glu Leu Phe Ala Leu Phe Phe His
 20 25 30
 Thr Thr Trp Gly Arg Glu Pro Trp Glu Tyr Ala His Gly Ile Ile Ile
 35 40 45
 His Ser Val Val Trp Lys Lys Lys Met Leu Thr Ser Ala Leu Glu Gly
 50 55 60
 Ser Tyr
 65

<210> 4817

<211> 90

<212> PRT

<213> Homo sapiens

<400> 4817

His Ala Ser Ala Asp Ala Trp Ala Asp Ala Trp Glu Lys Ser Cys Glu
 1 5 10 15
 Glu Ile Asp Leu Asp Lys His Lys Ser Ile Gln Arg Lys Lys Thr Glu
 20 25 30

4375

Val Glu Ile Glu Thr Val His Val Ser Thr Glu Lys Leu Lys Asn Arg
 35 40 45

Lys Glu Lys Lys Ser Arg Asp Val Val Ser Lys Lys Glu Glu Arg Lys
 50 55 60

Arg Thr Lys Lys Lys Lys Glu Gln Gly Gln Glu Arg Thr Glu Glu Glu
 65 70 75 80

Met Leu Trp Asp Gln Ser Ile Leu Gly Phe
 85 90

<210> 4818
 <211> 154
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (126)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (139)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4818
 Gly Gly Phe Leu His Pro Gln Pro Glu Arg Arg Pro Xaa Gly Pro Ala
 1 5 10 15

Pro Arg Lys Pro Pro Val Ala Arg Pro Arg Ser Gly Leu Gly Ser Pro
 20 25 30

Gly Lys Arg Phe Gly Arg Ala His Gly Asp Cys Val Ser Gly Ala Gln
 35 40 45

Leu Cys Gly Cys Pro Ser Met Asp Asp Tyr Met Val Leu Arg Met Ile
 50 55 60

4376

Gly Glu Gly Ser Phe Gly Arg Ala Leu Leu Val Gln His Glu Ser Ser
 65 70 75 80

Asn Gln Met Phe Ala Met Lys Glu Ile Arg Leu Pro Lys Ser Phe Ser
 85 90 95

Asn Thr Gln Asn Ser Arg Lys Glu Ala Val Leu Leu Ala Lys Met Lys
 100 105 110

His Pro Asn Ile Xaa Ala Phe Lys Glu Ser Phe Glu Ala Xaa Gly His
 115 120 125

Leu Tyr Ile Val Met Glu Tyr Cys Asp Gly Xaa Asp Leu Met Gln Lys
 130 135 140

Ile Lys Gln Gln Lys Arg Lys Val Ile Ser
 145 150

<210> 4819

<211> 63

<212> PRT

<213> Homo sapiens

<400> 4819

Arg Leu His Arg Tyr Pro Glu Ala Met Ala Ser Lys Gly Leu Gln Asp
 1 5 10 15

Leu Lys Gln Gln Val Glu Gly Thr Ala Gln Glu Ala Ala Met Asp Gln
 20 25 30

Leu Ala Lys Thr Thr Gln Glu Thr Ile Asp Lys Thr Ala Asn Gln Ala
 35 40 45

Ser Asp Thr Phe Ser Gly Ile Gly Lys Lys Phe Gly Leu Leu Lys
 50 55 60

<210> 4820

<211> 261

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

4377

<220>

<221> SITE

<222> (226)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4820

Val	Lys	Lys	Asp	Thr	Leu	Thr	Glu	Glu	Glu	Thr	Gln	Phe	Tyr	Ile	Ala
1				5					10					15	

Glu	Thr	Val	Leu	Ala	Ile	Asp	Ser	Ile	His	Gln	Leu	Gly	Phe	Ile	His
			20					25					30		

Arg	Asp	Ile	Lys	Pro	Asp	Asn	Leu	Leu	Leu	Asp	Ser	Lys	Gly	His	Val
		35					40					45			

Lys	Leu	Ser	Asp	Phe	Gly	Leu	Cys	Thr	Gly	Leu	Lys	Lys	Ala	His	Arg
	50					55					60				

Thr	Glu	Phe	Tyr	Arg	Asn	Leu	Asn	His	Ser	Leu	Pro	Ser	Asp	Phe	Thr
65					70					75					80

Phe	Gln	Asn	Met	Asn	Ser	Lys	Arg	Lys	Ala	Glu	Thr	Trp	Lys	Arg	Asn
				85					90					95	

Arg	Arg	Gln	Leu	Ala	Phe	Ser	Thr	Val	Gly	Thr	Pro	Asp	Tyr	Ile	Ala
			100					105					110		

Pro	Glu	Val	Phe	Met	Gln	Thr	Gly	Tyr	Asn	Lys	Leu	Cys	Asp	Trp	Trp
		115					120					125			

Ser	Leu	Gly	Val	Ile	Met	Tyr	Glu	Met	Leu	Ile	Gly	Tyr	Pro	Pro	Phe
	130					135					140				

Cys	Xaa	Glu	Thr	Pro	Gln	Glu	Thr	Tyr	Lys	Lys	Val	Met	Asn	Trp	Lys
145					150					155					160

Glu	Thr	Leu	Thr	Phe	Pro	Pro	Glu	Val	Pro	Ile	Ser	Glu	Lys	Ala	Lys
				165					170					175	

Asp	Leu	Ile	Leu	Arg	Phe	Cys	Cys	Glu	Trp	Glu	His	Arg	Ile	Gly	Ala
			180					185					190		

Pro	Gly	Val	Glu	Glu	Ile	Lys	Ser	Asn	Ser	Phe	Phe	Glu	Gly	Val	Asp
		195					200					205			

Trp	Glu	His	Ile	Arg	Glu	Arg	Pro	Ala	Ala	Ile	Ser	Ile	Glu	Ile	Lys
	210					215					220				

Ser	Xaa	Asp	Asp	Thr	Ser	Asn	Phe	Asp	Glu	Phe	Pro	Glu	Ser	Asp	Ile
225					230					235					240

4378

Leu Lys Pro Thr Asp Ala Phe Leu Gly Asp Thr Pro Pro His Pro Lys
 245 250 255

Gly Ser Pro Ala Thr
 260

<210> 4821

<211> 178

<212> PRT

<213> Homo sapiens

<400> 4821

Phe Arg Ala Leu His Arg Gly Ala Ala Leu Asp Leu Ser Pro Leu His
 1 5 10 15

Arg Ser Pro His Pro Ser Arg Gln Ala Ile Phe Cys Trp Met Ser Phe
 20 25 30

Ser Ala Tyr Gln Thr Ala Phe Ile Cys Leu Gly Leu Leu Val Gln Gln
 35 40 45

Ile Ile Phe Phe Leu Gly Thr Thr Ala Leu Ala Phe Leu Val Leu Met
 50 55 60

Pro Val Leu His Gly Arg Asn Leu Leu Leu Phe Arg Ser Leu Glu Ser
 65 70 75 80

Ser Trp Pro Phe Trp Leu Thr Leu Ala Leu Ala Val Ile Leu Gln Asn
 85 90 95

Met Ala Ala His Trp Val Phe Leu Glu Thr His Asp Gly His Pro Gln
 100 105 110

Leu Thr Asn Arg Arg Val Leu Tyr Ala Ala Thr Phe Leu Leu Phe Pro
 115 120 125

Leu Asn Val Leu Val Gly Ala Met Val Ala Thr Trp Arg Val Leu Leu
 130 135 140

Ser Ala Leu Tyr Asn Ala Ile His Leu Gly Gln Met Asp Leu Ser Leu
 145 150 155 160

Leu Pro Pro Arg Ala Ala Leu Ser Thr Pro Ala Thr Thr Arg Thr Glu
 165 170 175

Thr Ser

4379

<210> 4822

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4822

Thr	Pro	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr	Arg	Pro
1				5					10					15	

Pro	Ile	Phe	Pro	Val	Asp	Asn	Ala	Ile	Asp	Asn	Xaa	Lys	Glu	Ile	Gln
			20					25					30		

Val	Ala	Leu	Xaa	Ile	Leu	Met	Ala	Ala	Tyr	Ala	Met	Ala	Glu	Ala	Phe
		35					40				45				

Met	Ser	Thr	Gly	Val	Gly	Ala	Ser	Leu	Ile	Leu	Ile	Ala	Leu	Lys	Val
	50					55					60				

Gly	Ile	Thr	Ala	Lys	Thr	Val	Ala	Val	Ile	Gly	Ala	Ile	Val	Thr	Ser
65					70					75					80

Ile	Leu	Ser	Ile	Ala	Thr	Gly	Thr	Ser	Trp	Gly	Thr	Phe	Ala	Ala	Cys
			85						90					95	

Ala	Pro	Ile	Phe	Leu	Trp	Leu	Asn	His	Ile	Val	Gly	Gly	Asn	Ile	Leu
		100						105					110		

Leu	Thr	Thr	Ala	Ala	Ile	Ala	Gly	Gly	Ala	Cys	Phe	Gly	Asp	Asn	Ile
		115					120					125			

Gly	Leu	Ile	Ser	Asp	Thr	Thr	Ile	Val	Ser	Ser	Gly	Ile	Gln	Lys	Val
	130					135					140				

Glu	Val	Val	Arg	Arg	Ile	Arg	His	Gln	Gly	Val	Trp	Ser	Ala	Leu	Val
145					150					155					160

Leu	Leu	Ser	Gly	Ile	Ile	Val	Phe	Ala	Ile	Val	Gly	Phe	Thr	Trp	Ile
				165					170					175	

Tyr Pro

4380

<210> 4823
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 4823
 Leu Cys Cys Phe Lys Tyr Leu Gly Asp Cys Phe Ile Ile Ser Ser Thr
 1 5 10 15
 Lys Lys Thr Phe Asn Phe Ala Ile Glu Thr Val Glu Leu Cys His Ala
 20 25 30
 Phe Ile Arg Ser Ser Ala Leu Cys
 35 40

<210> 4824
 <211> 69
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4824
 Thr Gln Leu Arg Glu Cys Leu Phe Arg Ala Trp Ser Cys Tyr Leu Tyr
 1 5 10 15
 Leu Lys Ser Ser His Pro Val Pro Cys Phe Arg Ala Gly Leu Gln Phe
 20 25 30
 His Cys Ser Phe Leu Lys Leu Leu Cys Pro Gln Leu Thr Leu Phe Xaa
 35 40 45
 Asn Val Val Phe His Trp Thr Gly Leu Leu Phe Leu Val Ser His Ala
 50 55 60
 Phe Gly Phe Tyr Xaa
 65

4381

<210> 4825

<211> 306

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4825

Val	Ser	Arg	Pro	Ala	Gly	Lys	Asp	Met	Met	Arg	Lys	Leu	Glu	Lys	His
1				5					10					15	

Met	Thr	Ala	Xaa	Lys	Gly	Pro	Met	Ile	Val	Leu	Val	Leu	Asp	Glu	Met
			20					25					30		

Asp	Gln	Leu	Asp	Ser	Lys	Xaa	Gln	Asp	Val	Leu	Tyr	Thr	Leu	Phe	Glu
	35						40					45			

Trp	Pro	Trp	Leu	Ser	Asn	Ser	His	Leu	Val	Leu	Ile	Gly	Ile	Ala	Asn
	50					55					60				

Thr	Leu	Asp	Leu	Thr	Asp	Arg	Ile	Leu	Pro	Arg	Leu	Gln	Ala	Arg	Glu
65					70					75					80

Lys	Cys	Lys	Pro	Gln	Leu	Leu	Asn	Phe	Pro	Pro	Tyr	Thr	Arg	Asn	Gln
				85					90					95	

Ile	Val	Thr	Ile	Leu	Gln	Asp	Arg	Leu	Asn	Gln	Val	Ser	Arg	Asp	Gln
			100					105					110		

Val	Leu	Asp	Asn	Ala	Ala	Val	Gln	Phe	Cys	Ala	Arg	Lys	Val	Ser	Ala
		115					120					125			

Val	Ser	Gly	Asp	Val	Arg	Lys	Ala	Leu	Asp	Val	Cys	Arg	Arg	Ala	Ile
		130				135					140				

Glu	Ile	Val	Glu	Ser	Asp	Val	Lys	Ser	Gln	Thr	Ile	Leu	Lys	Pro	Leu
145					150					155					160

Ser	Glu	Cys	Lys	Ser	Pro	Ser	Glu	Pro	Leu	Ile	Pro	Lys	Arg	Val	Gly
				165					170					175	

4382

Leu Ile His Ile Ser Gln Val Ile Ser Glu Val Asp Gly Asn Arg Met
 180 185 190
 Thr Leu Ser Gln Glu Gly Ala Gln Asp Ser Phe Pro Leu Gln Gln Lys
 195 200 205
 Ile Leu Val Cys Ser Leu Met Leu Leu Ile Arg Gln Leu Lys Ile Lys
 210 215 220
 Glu Val Thr Leu Gly Lys Leu Tyr Glu Ala Tyr Ser Lys Val Cys Arg
 225 230 235 240
 Lys Gln Gln Val Ala Ala Val Asp Gln Ser Glu Cys Leu Ser Leu Ser
 245 250 255
 Gly Leu Leu Glu Ala Arg Gly Ile Leu Gly Leu Lys Arg Asn Lys Glu
 260 265 270
 Thr Arg Leu Thr Lys Val Phe Phe Lys Ile Glu Glu Lys Glu Ile Glu
 275 280 285
 His Ala Leu Lys Asp Lys Ala Leu Ile Gly Asn Ile Leu Ala Thr Gly
 290 295 300
 Leu Pro
 305

<210> 4826

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4826

Ala Ala Ala Gly Pro Gly Ala Cys Trp Ala Ser Pro Pro Arg Arg Leu
 1 5 10 15

His Ala Pro Thr Ala Xaa Ser Thr Xaa Ser Phe Gln Ala Arg Gln Leu
 20 25 30

4383

Leu Glu Lys Glu Phe Ser Asn Leu Ile Ser Leu Gly Thr Asp Arg Arg
 35 40 45
 Leu Asp Glu Asp Ser Ala Lys Ser Phe Ser Arg Ser Pro Ser Trp Arg
 50 55 60
 Lys Met Phe Arg Glu Lys Asp Leu Arg Gly Val Thr Pro Asp Ser Ala
 65 70 75 80
 Glu Met Leu Pro Pro Asn Phe Arg Ser Ala Ala Ala Gly Ala Leu Gly
 85 90 95
 Ser Pro Gly Leu Pro Leu Arg Lys Leu Gln Pro Glu Gly Gln Thr Ser
 100 105 110
 Gly Ser Ser Arg Ala Asp Gly Val Ser Val Arg Thr Tyr Ser Cys
 115 120 125

<210> 4827

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4827

Glu Ala Ala Asn Met Ile Leu Val Asp Asp Asp Phe Ser Ala Ile Met
 1 5 10 15
 Asn Ala Val Glu Glu Gly Lys Gly Ile Phe Tyr Asn Ile Lys Asn Phe
 20 25 30
 Val Arg Phe Gln Leu Ser Thr Ser Ile Ser Ala Leu Ser Leu Ile Thr
 35 40 45
 Leu Ser Thr Val Phe Asn Leu Pro Ser Pro Leu Asn Ala Met Gln Ile
 50 55 60
 Leu Trp Ile Asn Ile Ile Met Asp Gly Pro Pro Xaa Gln Arg
 65 70 75

<210> 4828

<211> 61

4384

<212> PRT

<213> Homo sapiens

<400> 4828

Asn Ile Val Cys Ser Asp Phe Ile Lys Asp Ile Phe Lys Ser Pro Ile
 1 5 10 15

Tyr Ser Arg Ile Phe Ser Tyr Asp Val Ile Tyr Glu Lys Asp Val Cys
 20 25 30

Thr Asn Arg Cys Cys Asn Thr Thr Val Val Gly Phe Tyr Cys Leu Val
 35 40 45

Ile Asn Val Tyr Asn Ile Ser Lys Gly Asn Tyr Val Leu
 50 55 60

<210> 4829

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4829

Ala Leu Trp Gly Asp Ala Ser Gly Gln Ser Cys Leu Leu Ile Phe Ile
 1 5 10 15

Leu Arg Ala Ser Ala Leu Glu Xaa Leu Pro His Ala Phe Ser Val Asp
 20 25 30

His Ser Gly Pro Pro Val Gly Val Ala Cys Gln Ala Arg Thr Pro Pro
 35 40 45

Gly Gly Gln Ser Arg Asn Leu Arg Gly Ala Glu Thr Pro Phe Ile Ser
 50 55 60

Gly Cys His Arg Pro Glu Gln His Trp Ala Gly Cys Pro Leu Leu Thr
 65 70 75 80

Gly Trp Gln His Lys Asp Asn Met Ser Arg Gly Arg Arg Arg Arg Gly
 85 90 95

Ala Gln Ala Ala Gly His Ser Pro Ala Ala Pro Glu Ala Leu Ile Ser
 100 105 110

Asp His Gln Ala Met Thr Phe Leu Cys Ala Leu Gln Lys Ala Phe Asn

4385

115	120	125
Cys Asp Gln Ala Val Cys Ser Asp Thr Leu Ser Gly Asp Phe		
130	135	140

<210> 4830

<211> 163

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4830

Gly Pro Arg His Ala Asp Phe Pro Cys Ser Ala Val Val Arg Lys Cys		
1	5	10
		15

4386

Leu Ala Ala Xaa Gly Arg Arg Arg Gly Arg Gln Thr Tyr Ser Arg Phe
 20 25 30
 Gln Thr Leu Glu Leu Glu Lys Glu Phe Leu Phe Asn Pro Tyr Leu Thr
 35 40 45
 Arg Lys Arg Arg Ile Glu Val Ser His Ala Leu Ala Xaa Thr Glu Arg
 50 55 60
 Xaa Val Lys Ile Trp Phe Gln Asn Arg Arg Met Asn Gly Lys Xaa Lys
 65 70 75 80
 Thr Thr Arg Gln Ile Ser Arg Phe Pro Ala Gly Gly Glu Gly Arg Gly
 85 90 95
 Asn Glu Lys Xaa Ser Pro Arg Ala Gly Gly Arg Gln Ser Arg Arg Pro
 100 105 110
 Xaa Xaa Leu Thr Ser Thr Phe Lys Ile Tyr His Arg Leu Leu Lys Leu
 115 120 125
 Ile Ile Thr Ile Cys Cys Gly His His Leu Phe Ser Leu Leu Glu Arg
 130 135 140
 Thr Leu Pro Val Phe Gln Ala Thr Phe Met Ser Leu Leu Leu Arg Phe
 145 150 155 160
 Ser Val Leu

<210> 4831

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

4387

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4831

Glu	Leu	Lys	Arg	Leu	Thr	Ile	Gly	Lys	Asn	Xaa	Xaa	Arg	Leu	Thr	Gly
1				5					10					15	

Asn	Arg	Xaa	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Glu	Xaa	Glu	Val
			20					25					30		

Glu	Glu	Glu	Gly	Asp	Val	Asp	Ser	Asp	Glu	Glu	Glu	Glu	Glu	Asp	Glu
			35					40					45		

Glu	Ser	Ser	Ser	Glu	Gly	Leu	Glu	Ala	Glu	Asp	Trp	Ala	Gln	Gly	Val
	50					55					60				

Val	Glu	Ala	Gly	Gly	Ser	Phe	Gly	Ala	Tyr	Gly	Ala	Gln	Glu	Glu	Ala
65						70				75					80

Gln	Cys	Pro	Thr	Leu	His	Phe	Leu	Glu	Gly	Gly	Glu	Asp	Ser	Asp	Ser
				85						90				95	

Asp	Ser	Glu	Glu	Glu	Asp	Asp	Glu	Glu	Glu	Asp	Asp	Glu	Asp	Glu	Asp
			100					105					110		

Asp	Asp	Asp	Asp	Glu	Glu	Asp	Gly	Asp	Glu	Val	Pro	Val	Pro	Ser	Phe
			115				120					125			

Gly	Glu	Ala	Met	Ala	Tyr	Phe	Ala	Met	Val	Lys	Arg	Tyr	Leu	Thr	Ser
			130			135					140				

Phe	Pro	Ile	Asp	Asp	Arg	Val	Gln	Ser	His	Ile	Leu	His	Leu	Glu	His
145					150					155					160

Asp	Leu	Val	His	Val	Thr	Arg	Lys	Asn	His	Ala	Arg	Gln	Ala	Gly	Val
				165					170					175	

Arg	Gly	Leu	Gly	His	Gln	Ser
						180

<210> 4832

<211> 313

<212> PRT

<213> Homo sapiens

<400> 4832

4388

Gly	Arg	Phe	Gln	Lys	Cys	Leu	Ala	Val	Gly	Met	Ser	His	Asn	Ala	Ile	1	5	10	15
Arg	Phe	Gly	Arg	Met	Pro	Gln	Ala	Glu	Lys	Glu	Lys	Leu	Leu	Ala	Glu	20	25	30	
Ile	Ser	Ser	Asp	Ile	Asp	Gln	Leu	Asn	Pro	Glu	Ser	Ala	Asp	Leu	Arg	35	40	45	
Ala	Leu	Ala	Lys	His	Leu	Tyr	Asp	Ser	Tyr	Ile	Lys	Ser	Phe	Pro	Leu	50	55	60	
Thr	Lys	Ala	Lys	Ala	Arg	Ala	Ile	Leu	Thr	Gly	Lys	Thr	Thr	Asp	Lys	65	70	75	80
Ser	Pro	Phe	Val	Ile	Tyr	Asp	Met	Asn	Ser	Leu	Met	Met	Gly	Glu	Asp	85	90	95	
Lys	Ile	Lys	Phe	Lys	His	Ile	Thr	Pro	Leu	Gln	Glu	Gln	Ser	Lys	Glu	100	105	110	
Val	Ala	Ile	Arg	Ile	Phe	Gln	Gly	Cys	Gln	Phe	Arg	Ser	Val	Glu	Ala	115	120	125	
Val	Gln	Glu	Ile	Thr	Glu	Tyr	Ala	Lys	Ser	Ile	Pro	Gly	Phe	Val	Asn	130	135	140	
Leu	Asp	Leu	Asn	Asp	Gln	Val	Thr	Leu	Leu	Lys	Tyr	Gly	Val	His	Glu	145	150	155	160
Ile	Ile	Tyr	Thr	Met	Leu	Ala	Ser	Leu	Met	Asn	Lys	Asp	Gly	Val	Leu	165	170	175	
Ile	Ser	Glu	Gly	Gln	Gly	Phe	Met	Thr	Arg	Glu	Phe	Leu	Lys	Ser	Leu	180	185	190	
Arg	Lys	Pro	Phe	Gly	Asp	Phe	Met	Glu	Pro	Lys	Phe	Glu	Phe	Ala	Val	195	200	205	
Lys	Phe	Asn	Ala	Leu	Glu	Leu	Asp	Asp	Ser	Asp	Leu	Ala	Ile	Phe	Ile	210	215	220	
Ala	Val	Ile	Ile	Leu	Ser	Gly	Asp	Arg	Pro	Gly	Leu	Leu	Asn	Val	Lys	225	230	235	240
Pro	Ile	Glu	Asp	Ile	Gln	Asp	Asn	Leu	Leu	Gln	Ala	Leu	Glu	Leu	Gln	245	250	255	
Leu	Lys	Leu	Asn	His	Pro	Glu	Ser	Ser	Gln	Leu	Phe	Ala	Lys	Leu	Leu	260	265	270	

4389

Gln Lys Met Thr Asp Leu Arg Gln Ile Val Thr Glu His Val Gln Leu
 275 280 285

Leu Gln Val Ile Lys Lys Thr Glu Thr Asp Met Ser Leu His Pro Leu
 290 295 300

Leu Gln Glu Ile Tyr Lys Asp Leu Tyr
 305 310

<210> 4833

<211> 187

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4833

Lys Ser Gly Ile Leu Val Asn Asn Val Xaa Met Ser Tyr Glu Tyr Pro
 1 5 10 15

Glu Tyr Phe Leu Asp Val Pro Asp Leu Asp Asn Val Ile Lys Lys Met
 20 25 30

Ile Asn Ile Asn Ile Leu Ser Val Cys Lys Met Thr Gln Leu Val Leu
 35 40 45

Pro Gly Met Val Glu Arg Ser Lys Gly Ala Ile Leu Asn Ile Ser Ser
 50 55 60

Gly Ser Gly Met Leu Pro Val Pro Leu Leu Thr Ile Tyr Ser Ala Thr
 65 70 75 80

Lys Thr Phe Val Asp Phe Phe Ser Gln Cys Leu His Glu Glu Tyr Arg
 85 90 95

Ser Lys Gly Val Phe Val Gln Ser Val Leu Pro Tyr Phe Val Ala Thr
 100 105 110

Lys Leu Ala Lys Ile Arg Lys Pro Thr Leu Asp Lys Pro Ser Pro Glu
 115 120 125

Thr Phe Val Lys Ser Ala Ile Lys Thr Val Gly Leu Gln Ser Arg Thr
 130 135 140

Asn Gly Tyr Leu Ile His Ala Leu Met Gly Ser Ile Ile Ser Asn Leu
 145 150 155 160

4390

Pro Ser Trp Ile Tyr Leu Lys Ile Val Met Asn Met Asn Lys Ser Thr
 165 170 175

Arg Ala His Tyr Leu Lys Lys Thr Lys Lys Asn
 180 185

<210> 4834

<211> 99

<212> PRT

<213> Homo sapiens

<400> 4834

Ser Ile Glu Phe Ser Gly His Leu Phe Phe Pro Leu Pro Leu Leu Arg
 1 5 10 15

Pro Ser Pro Pro Leu Ile Ile Ile Gln Val Val Val Lys Ile Val Leu
 20 25 30

Leu Ser Asp Pro Phe Leu Val Trp Leu Phe Ile Pro Ser Glu Gln Val
 35 40 45

Asn Val Gly Ala Thr Ala Leu Val Ser Thr Val Ser Leu Thr Val Asn
 50 55 60

Glu Pro Pro Gly Val Ser Ser Lys Lys Arg Lys Gly Val Thr Gly Thr
 65 70 75 80

Thr Ala Leu Phe His Phe Ile Asn Cys Leu Phe Met Leu Pro Ala Gln
 85 90 95

Val Ser Thr

<210> 4835

<211> 301

<212> PRT

<213> Homo sapiens

<400> 4835

Leu Arg Val Phe Leu Cys Val Phe Phe Tyr Phe Ala Trp Leu Phe Glu
 1 5 10 15

His Tyr Trp Thr Leu Val Leu Glu Gly Lys Thr Phe Gln Leu Tyr Ser
 20 25 30

His Asn Leu Ile Ala Leu Phe Glu His Ala Lys Lys Pro Gly Leu Ala

4391

35	40	45
Ala His Ile Gln Thr His Arg Phe Pro Asp Arg Ile Leu Pro Arg Lys		
50	55	60
Phe Ala Leu Thr Thr Lys Ile Pro Asp Thr Lys Gly Cys His Lys Cys		
65	70	75
Cys Ile Val Arg Asn Pro Tyr Thr Gly His Lys Tyr Leu Cys Gly Ala		
	85	90
Leu Gln Ser Gly Ile Val Leu Leu Gln Trp Tyr Glu Pro Met Gln Lys		
	100	105
Phe Met Leu Ile Lys His Phe Asp Phe Pro Leu Pro Ser Pro Leu Asn		
	115	120
Val Phe Glu Met Leu Val Ile Pro Glu Gln Glu Tyr Pro Met Val Cys		
	130	135
Val Ala Ile Ser Lys Gly Thr Glu Ser Asn Gln Val Val Gln Phe Glu		
	145	150
Thr Ile Asn Leu Asn Ser Ala Ser Ser Trp Phe Thr Glu Ile Gly Ala		
	165	170
Gly Ser Gln Gln Leu Asp Ser Ile His Val Thr Gln Leu Glu Arg Asp		
	180	185
Thr Val Leu Val Cys Leu Asp Lys Phe Val Lys Ile Val Asn Leu Gln		
	195	200
Gly Lys Leu Lys Ser Ser Lys Lys Leu Ala Ser Glu Leu Ser Phe Asp		
	210	215
Phe Arg Ile Glu Ser Val Val Cys Leu Gln Asp Ser Val Leu Ala Phe		
	225	230
Trp Lys His Gly Met Gln Gly Lys Ser Phe Lys Ser Asp Glu Val Thr		
	245	250
Gln Glu Ile Ser Asp Glu Thr Arg Val Phe Arg Leu Leu Gly Ser Asp		
	260	265
Arg Val Val Val Leu Glu Ser Arg Pro Thr Glu Asn Pro Thr Ala His		
	275	280
Ser Asn Leu Tyr Ile Leu Ala Gly His Glu Asn Ser Tyr		
	290	300

4392

<210> 4836

<211> 355

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (342)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (348)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (351)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (352)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4836

Phe	Pro	Gly	Ser	Gly	Asn	Met	Ala	Lys	Asp	Ala	Gly	Leu	Ile	Glu	Ala
1				5					10					15	

Asn	Gly	Glu	Leu	Lys	Val	Phe	Ile	Asp	Gln	Asn	Leu	Ser	Pro	Gly	Lys
			20					25					30		

Gly	Val	Val	Ser	Leu	Val	Ala	Val	His	Pro	Ser	Thr	Val	Asn	Pro	Leu
			35					40					45		

Gly	Lys	Gln	Leu	Leu	Pro	Lys	Thr	Phe	Gly	Gln	Ser	Asn	Val	Asn	Ile
	50					55					60				

Ala	Gln	Gln	Val	Val	Ile	Gly	Thr	Pro	Gln	Arg	Pro	Ala	Ala	Ser	Asn
65					70					75					80

Thr	Leu	Val	Val	Gly	Ser	Pro	His	Thr	Pro	Ser	Thr	His	Phe	Ala	Ser
				85					90					95	

Gln	Asn	Gln	Pro	Ser	Asp	Ser	Ser	Pro	Trp	Ser	Ala	Gly	Lys	Arg	Asn
			100					105					110		

Arg	Lys	Gly	Glu	Lys	Asn	Gly	Lys	Gly	Leu	Arg	His	Phe	Ser	Met	Lys
			115				120						125		

4393

Val	Cys	Glu	Lys	Val	Gln	Arg	Lys	Gly	Thr	Thr	Ser	Tyr	Asn	Glu	Val	130	135	140	
Ala	Asp	Glu	Leu	Val	Ala	Glu	Phe	Ser	Ala	Ala	Asp	Asn	His	Ile	Leu	145	150	155	160
Pro	Asn	Glu	Ser	Ala	Tyr	Asp	Gln	Lys	Asn	Ile	Arg	Arg	Arg	Val	Tyr	165	170	175	
Asp	Ala	Leu	Asn	Val	Leu	Met	Ala	Met	Asn	Ile	Ile	Ser	Lys	Glu	Lys	180	185	190	
Lys	Glu	Ile	Lys	Trp	Ile	Gly	Leu	Pro	Thr	Asn	Ser	Ala	Gln	Glu	Cys	195	200	205	
Gln	Asn	Leu	Glu	Val	Glu	Arg	Gln	Arg	Arg	Leu	Glu	Arg	Ile	Lys	Gln	210	215	220	
Lys	Gln	Ser	Gln	Leu	Gln	Glu	Leu	Ile	Leu	Gln	Gln	Ile	Ala	Phe	Lys	225	230	235	240
Asn	Leu	Val	Gln	Arg	Asn	Arg	His	Ala	Glu	Gln	Gln	Ala	Ser	Arg	Pro	245	250	255	
Pro	Pro	Pro	Asn	Ser	Val	Ile	His	Leu	Pro	Phe	Ile	Ile	Val	Asn	Thr	260	265	270	
Ser	Lys	Lys	Thr	Val	Ile	Asp	Cys	Ser	Ile	Ser	Asn	Asp	Lys	Phe	Glu	275	280	285	
Tyr	Leu	Phe	Asn	Phe	Asp	Asn	Thr	Phe	Glu	Ile	His	Asp	Asp	Ile	Glu	290	295	300	
Val	Leu	Lys	Arg	Met	Gly	Met	Ala	Cys	Gly	Leu	Glu	Ser	Gly	Ser	Cys	305	310	315	320
Ser	Ala	Glu	Asp	Leu	Lys	Met	Ala	Arg	Ser	Leu	Val	Pro	Lys	Ala	Leu	325	330	335	
Glu	Pro	Tyr	Val	Thr	Xaa	Met	Ala	Gln	Gly	Thr	Xaa	Gly	Gly	Xaa	Xaa	340	345	350	
Leu	Cys	Gln														355			

<210> 4837

<211> 263

<212> PRT

<213> Homo sapiens

4394

<400> 4837

Trp Ile Thr Tyr Gln Gly Phe Leu Ser Gln Trp Thr Leu Thr Thr Tyr
 1 5 10 15
 Leu Asp Val Gln Arg Cys Leu Glu Tyr Leu Gly Tyr Leu Gly Tyr Ser
 20 25 30
 Ile Leu Thr Glu Gln Glu Ser Gln Ala Ser Ala Val Thr Val Thr Arg
 35 40 45
 Asp Lys Lys Ile Asp Leu Gln Lys Lys Gln Thr Gln Arg Asn Val Phe
 50 55 60
 Arg Cys Asn Val Ile Gly Val Lys Asn Cys Gly Lys Ser Gly Val Leu
 65 70 75 80
 Gln Ala Leu Leu Gly Arg Asn Leu Met Arg Gln Lys Lys Ile Arg Glu
 85 90 95
 Asp His Lys Ser Tyr Tyr Ala Ile Asn Thr Val Tyr Val Tyr Gly Gln
 100 105 110
 Glu Lys Tyr Leu Leu Leu His Asp Ile Ser Glu Ser Glu Phe Leu Thr
 115 120 125
 Glu Ala Glu Ile Ile Cys Asp Val Val Cys Leu Val Tyr Asp Val Ser
 130 135 140
 Asn Pro Lys Ser Phe Glu Tyr Cys Ala Arg Ile Phe Lys Gln His Phe
 145 150 155 160
 Met Asp Ser Arg Ile Pro Cys Leu Ile Val Ala Ala Lys Ser Asp Leu
 165 170 175
 His Glu Val Lys Gln Glu Tyr Ser Ile Ser Pro Thr Asp Phe Cys Arg
 180 185 190
 Lys His Lys Met Pro Pro Pro Gln Ala Phe Thr Cys Asn Thr Ala Asp
 195 200 205
 Ala Pro Ser Lys Asp Ile Phe Val Lys Leu Thr Thr Met Ala Met Tyr
 210 215 220
 Pro His Val Thr Gln Ala Asp Leu Lys Ser Ser Thr Phe Trp Leu Arg
 225 230 235 240
 Ala Ser Phe Gly Ala Thr Val Phe Ala Val Leu Gly Phe Ala Met Tyr
 245 250 255
 Lys Ala Leu Leu Lys Gln Arg

4395

260

<210> 4838

<211> 285

<212> PRT

<213> Homo sapiens

<400> 4838

Gly	Arg	Met	Asn	Trp	Thr	Gly	Leu	Tyr	Thr	Leu	Leu	Ser	Gly	Val	Asn
1				5					10					15	

Arg	His	Ser	Thr	Ala	Ile	Gly	Arg	Val	Trp	Leu	Ser	Val	Ile	Phe	Ile
			20					25					30		

Phe	Arg	Ile	Met	Val	Leu	Val	Val	Ala	Ala	Glu	Ser	Val	Trp	Gly	Asp
		35					40					45			

Glu	Lys	Ser	Ser	Phe	Ile	Cys	Asn	Thr	Leu	Gln	Pro	Gly	Cys	Asn	Ser
	50					55					60				

Val	Cys	Tyr	Asp	Gln	Phe	Phe	Pro	Ile	Ser	His	Val	Arg	Leu	Trp	Ser
65					70					75					80

Leu	Gln	Leu	Ile	Leu	Val	Ser	Thr	Pro	Ala	Leu	Leu	Val	Ala	Met	His
			85						90					95	

Val	Ala	His	Gln	Gln	His	Ile	Glu	Lys	Lys	Met	Leu	Arg	Leu	Glu	Gly
			100					105					110		

His	Gly	Asp	Pro	Leu	His	Leu	Glu	Glu	Val	Lys	Arg	His	Lys	Val	His
		115					120					125			

Ile	Ser	Gly	Thr	Leu	Trp	Trp	Thr	Tyr	Val	Ile	Ser	Val	Val	Phe	Arg
	130					135					140				

Leu	Leu	Phe	Glu	Ala	Val	Phe	Met	Tyr	Val	Phe	Tyr	Leu	Leu	Tyr	Pro
145					150					155					160

Gly	Tyr	Ala	Met	Val	Arg	Leu	Val	Lys	Cys	Asp	Val	Tyr	Pro	Cys	Pro
				165					170					175	

Asn	Thr	Val	Asp	Cys	Phe	Val	Ser	Arg	Pro	Thr	Glu	Lys	Thr	Val	Phe
			180					185					190		

Thr	Val	Phe	Met	Leu	Ala	Ala	Ser	Gly	Ile	Cys	Ile	Ile	Leu	Asn	Val
		195					200					205			

Ala	Glu	Val	Val	Tyr	Leu	Ile	Ile	Arg	Ala	Cys	Ala	Arg	Arg	Ala	Gln
	210					215					220				

4396

Arg Arg Ser Asn Pro Pro Ser Arg Lys Gly Ser Gly Phe Gly His Arg
 225 230 235 240

Leu Ser Pro Glu Tyr Lys Gln Asn Glu Ile Asn Lys Leu Leu Ser Glu
 245 250 255

Gln Asp Gly Ser Leu Lys Asp Ile Leu Arg Arg Ser Pro Gly Thr Gly
 260 265 270

Ala Gly Leu Ala Glu Lys Ser Asp Arg Cys Ser Ala Cys
 275 280 285

<210> 4839
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 4839
 Gly Gln Asp Gly Glu Thr Pro Ser Leu Leu Lys Ile Gln Arg Ile Ser
 1 5 10 15

Trp Ala Trp Trp Arg Ala Pro Val Ile Pro Ala Thr Arg Glu Ala Glu
 20 25 30

Ala Arg Glu Ser Leu Glu Pro Arg Arg Trp Arg Leu Gln
 35 40 45

<210> 4840
 <211> 280
 <212> PRT
 <213> Homo sapiens

<400> 4840
 Arg Ala Glu Ser Val Pro Ala His Pro Cys Gly Phe Pro Ala Pro Leu
 1 5 10 15

Pro Pro Thr Arg Met Met Glu Ser Lys Met Ile Ala Ala Ile His Ser
 20 25 30

Ser Ser Ala Asp Ala Thr Ser Ser Ser Asn Tyr His Ser Phe Val Thr
 35 40 45

Ala Ser Ser Thr Ser Val Asp Asp Ala Leu Pro Leu Pro Leu Pro Val
 50 55 60

Pro Gln Pro Lys His Ala Ser Gln Lys Thr Val Tyr Ser Ser Phe Ala

4397

65					70						75					80
Arg	Pro	Asp	Val	Thr	Thr	Glu	Pro	Phe	Gly	Pro	Asp	Asn	Cys	Leu	His	
				85					90					95		
Phe	Asn	Met	Thr	Pro	Asn	Cys	Gln	Tyr	Arg	Pro	Gln	Ser	Val	Pro	Pro	
			100					105					110			
His	His	Asn	Lys	Leu	Glu	Gln	His	Gln	Val	Tyr	Gly	Ala	Arg	Ser	Glu	
		115					120					125				
Pro	Pro	Ala	Ser	Met	Gly	Leu	Arg	Tyr	Asn	Thr	Tyr	Val	Ala	Pro	Gly	
		130				135					140					
Arg	Asn	Ala	Ser	Gly	His	His	Ser	Lys	Pro	Cys	Ser	Arg	Val	Glu	Tyr	
145					150					155				160		
Val	Ser	Ser	Leu	Ser	Ser	Ser	Val	Arg	Asn	Thr	Cys	Tyr	Pro	Glu	Asp	
			165						170					175		
Ile	Pro	Pro	Tyr	Pro	Thr	Ile	Arg	Arg	Val	Gln	Ser	Leu	His	Ala	Pro	
			180					185					190			
Pro	Ser	Ser	Met	Ile	Arg	Ser	Val	Pro	Ile	Ser	Arg	Thr	Glu	Val	Pro	
		195					200					205				
Pro	Asp	Asp	Glu	Pro	Ala	Tyr	Cys	Pro	Arg	Pro	Leu	Tyr	Gln	Tyr	Lys	
	210					215					220					
Pro	Tyr	Gln	Ser	Ser	Gln	Ala	Arg	Ser	Asp	Tyr	His	Val	Thr	Gln	Leu	
225					230				235						240	
Gln	Pro	Tyr	Phe	Glu	Asn	Gly	Arg	Val	His	Tyr	Arg	Tyr	Ser	Pro	Tyr	
			245						250					255		
Ser	Ser	Ser	Ser	Ser	Ser	Tyr	Tyr	Ser	Pro	Asp	Gly	Ala	Leu	Cys	Asp	
			260					265					270			
Val	Asp	Ala	Tyr	Gly	Gln	Ser	Ser									
		275					280									

<210> 4841

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

4398

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4841

Ala	Met	Lys	Asn	Asn	Asn	Ile	Lys	Pro	Tyr	Gly	Leu	Ile	Leu	Lys	Phe
1				5					10					15	
Ile	Ile	Leu	Ile	Gln	Lys	Leu	Pro	His	Thr	Lys	Val	Thr	Glu	Leu	Pro
			20					25					30		
Tyr	Val	Ser	His	Ile	Val	Xaa	Glu	His	Lys	Thr	Leu	Thr	Thr	Pro	Leu
		35					40					45			
Ile	Val	Ser	Thr	Leu	Phe	Cys	Lys	Tyr	Ser	Glu	Tyr	Phe	Gly	Phe	Ile
	50					55					60				
Leu	Ser	Arg	Ile	Phe	Val	Phe	Asn	Phe	Ala	Asn	Glu	Ile	Phe	Asn	Asn
65					70					75					80

<210> 4842

<211> 85

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4842

Pro	Ala	Lys	Gly	Lys	Lys	Lys	Cys	Ser	Pro	His	Ser	Cys	Lys	Gly	Leu
1				5					10					15	
Gln	Leu	Ala	Thr	Ala	Asn	Arg	Lys	Ile	Lys	Met	Ile	Glu	Pro	Phe	Gly
			20					25					30		
Asn	Gln	Tyr	Ile	Val	Ala	Arg	Pro	Val	Tyr	Ser	Thr	Asn	Ala	Phe	Glu
		35					40					45			
Glu	Asn	His	Lys	Lys	Thr	Gly	Arg	His	His	Lys	Thr	Phe	Leu	Asp	His
	50					55					60				
Leu	Lys	Val	Cys	Cys	Asn	Cys	Ser	Pro	Gln	Lys	Ala	Arg	Glu	Leu	Ser
65					70					75					80

Ser Leu Xaa Phe Pro
85

4399

<210> 4843

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4843

Leu	Ser	Ala	Cys	Phe	Ala	Tyr	His	Arg	Asp	Ile	Ser	Met	Ala	Val	Pro
1				5					10					15	

Pro	Cys	Arg	Val	Ala	Tyr	Gln	Thr	Asp	Val	Asp	Cys	Xaa	Ile	Ser	Trp
			20					25					30		

Gln	His	Gln	Ser	Met	Gly	Cys	Leu	Thr	Phe	Trp	Tyr	Leu	Ser	Ser	Asp
		35					40					45			

His	Pro	Tyr	Pro	Met	Phe	Ser	Phe	Lys	His	Tyr	Pro	Ala	Ser	Leu	Phe
	50					55					60				

Ile	Ile	Arg	Asn	Ser	Gly	Pro	Ser	Val	Trp	Trp	His	Leu	Glu	Ser	Phe
65					70					75					80

Val Pro

<210> 4844

<211> 430

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (397)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (417)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4400

<222> (429)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4844

Glu	Pro	Leu	Ile	Glu	Leu	Ser	Asn	Pro	Gly	Ala	Ser	Gly	Ser	Leu	Phe	1	5	10	15
Phe	Val	Thr	Ser	Asp	Asp	Glu	Phe	Ile	Ile	Lys	Thr	Val	Gln	His	Lys	20	25	30	
Glu	Ala	Glu	Phe	Leu	Gln	Lys	Leu	Leu	Pro	Gly	Tyr	Tyr	Met	Asn	Leu	35	40	45	
Asn	Gln	Asn	Pro	Arg	Thr	Leu	Leu	Pro	Lys	Phe	Tyr	Gly	Leu	Tyr	Cys	50	55	60	
Met	Gln	Ser	Gly	Gly	Ile	Asn	Ile	Arg	Ile	Val	Val	Met	Asn	Asn	Val	65	70	75	80
Leu	Pro	Arg	Ser	Met	Arg	Met	His	Phe	Thr	Tyr	Asp	Leu	Lys	Gly	Ser	85	90	95	
Thr	Tyr	Lys	Arg	Arg	Ala	Ser	Arg	Lys	Glu	Arg	Glu	Lys	Ser	Asn	Pro	100	105	110	
Thr	Phe	Lys	Asp	Leu	Asp	Phe	Leu	Gln	Asp	Met	His	Glu	Gly	Leu	Tyr	115	120	125	
Phe	Asp	Thr	Glu	Thr	Tyr	Asn	Ala	Leu	Met	Lys	Thr	Leu	Gln	Arg	Asp	130	135	140	
Cys	Arg	Val	Leu	Glu	Ser	Phe	Lys	Ile	Met	Asp	Tyr	Ser	Leu	Leu	Leu	145	150	155	160
Gly	Ile	His	Phe	Leu	Asp	His	Ser	Leu	Lys	Glu	Lys	Glu	Glu	Glu	Thr	165	170	175	
Pro	Gln	Asn	Val	Pro	Asp	Ala	Lys	Arg	Thr	Gly	Met	Gln	Lys	Val	Leu	180	185	190	
Tyr	Ser	Thr	Ala	Met	Glu	Ser	Ile	Gln	Gly	Pro	Gly	Lys	Ser	Gly	Asp	195	200	205	
Gly	Ile	Ile	Thr	Glu	Asn	Pro	Asp	Thr	Met	Gly	Gly	Ile	Pro	Ala	Lys	210	215	220	
Ser	His	Arg	Gly	Glu	Lys	Leu	Leu	Leu	Phe	Met	Gly	Ile	Ile	Asp	Ile	225	230	235	240
Leu	Gln	Ser	Tyr	Arg	Leu	Met	Lys	Lys	Leu	Glu	His	Ser	Trp	Lys	Ala	245	250	255	

4401

Leu Val Tyr Asp Gly Asp Thr Val Ser Val His Arg Pro Ser Phe Tyr
 260 265 270
 Ala Asp Arg Phe Leu Lys Phe Met Asn Ser Arg Val Phe Lys Lys Ile
 275 280 285
 Gln Ala Leu Lys Ala Ser Pro Ser Lys Lys Arg Cys Asn Ser Ile Ala
 290 295 300
 Ala Leu Lys Ala Thr Ser Gln Glu Ile Val Ser Ser Ile Ser Gln Glu
 305 310 315 320
 Trp Lys Asp Glu Lys Arg Asp Leu Leu Thr Glu Gly Gln Ser Phe Ser
 325 330 335
 Ser Leu Asp Glu Glu Ala Leu Gly Ser Arg His Arg Pro Asp Leu Val
 340 345 350
 Pro Ser Thr Pro Ser Leu Phe Glu Ala Ala Ser Leu Ala Thr Thr Ile
 355 360 365
 Ser Ser Ser Ser Leu Tyr Val Asn Glu His Tyr Pro His Asp Arg Pro
 370 375 380
 Thr Leu Tyr Phe Lys Gln Gln Arg Val Thr Phe Gln Xaa Gln His Phe
 385 390 395 400
 Thr Leu Gly Arg Gly Asp Leu Leu Leu Gly Pro Leu Gly Pro Asn Ile
 405 410 415
 Xaa Gly Ser Cys Arg Val Thr Leu Phe Leu Trp Phe Xaa Arg
 420 425 430

<210> 4845

<211> 63

<212> PRT

<213> Homo sapiens

<400> 4845

Lys Ile Val Ser Phe Phe Phe Phe Tyr Arg Lys Leu Ser Leu Cys Asn
 1 5 10 15
 Ser Val Ser Phe Arg Phe Leu Ser Cys Phe Cys Lys Leu Trp Glu Arg
 20 25 30
 Leu Thr Met Gln Met Cys Gln Arg His Thr Val Gly Cys Asn Ile Asn
 35 40 45

4402

Asn Phe Lys Cys Lys Phe Leu Trp Ile Asn Tyr Phe Tyr Ile Leu
 50 55 60

<210> 4846

<211> 128

<212> PRT

<213> Homo sapiens

<400> 4846

Ala Cys Pro Arg Pro Arg Thr Pro Asp Pro Ser His Pro Phe Gln Arg
 1 5 10 15

Pro Arg Ala Arg Pro Trp Thr Glu Leu Leu Val Leu Cys Arg Glu Thr
 20 25 30

Ile Gln Pro Lys Leu Trp Glu Ala Gln Ser Ile Glu Trp Ala Glu Ala
 35 40 45

Ala Gly Ala Glu Pro Gly Arg Val Leu Gly Val His Pro Ser Leu Arg
 50 55 60

Arg Gln Val Pro Gln Gly Pro Thr His Leu Lys Pro Ala Cys Thr Val
 65 70 75 80

Glu Val Val Glu Val Asp Thr Pro Arg Gly Phe Ser Lys Ala Arg Leu
 85 90 95

Ala Ala Pro Cys Ser Gly Lys Leu Asn Tyr Ser Arg Phe Arg Ser Ser
 100 105 110

Val Asp Ser His Gln Ser Gly Gly Val Leu Lys Glu Phe Tyr Val Asp
 115 120 125

<210> 4847

<211> 175

<212> PRT

<213> Homo sapiens

<400> 4847

His Glu Leu Thr Asp Ala Ala Ser Ile Ala Ala Ala Arg Gly Glu Met
 1 5 10 15

Ser Glu Val Arg Pro Leu Ser Arg Asp Ile Leu Met Glu Thr Leu Leu
 20 25 30

4403

Tyr	Glu	Gln	Leu	Leu	Glu	Pro	Pro	Thr	Met	Glu	Val	Leu	Gly	Met	Thr	
35						40						45				
Asp	Ser	Glu	Glu	Asp	Leu	Asp	Pro	Met	Glu	Asp	Phe	Asp	Ser	Leu	Glu	
50						55				60						
Cys	Met	Glu	Gly	Ser	Asp	Ala	Leu	Ala	Leu	Arg	Leu	Ala	Cys	Ile	Gly	
65				70						75				80		
Asp	Glu	Met	Asp	Val	Ser	Leu	Arg	Ala	Pro	Arg	Leu	Ala	Gln	Leu	Ser	
			85						90						95	
Glu	Val	Ala	Met	His	Ser	Leu	Gly	Leu	Ala	Phe	Ile	Tyr	Asp	Gln	Thr	
			100						105						110	
Glu	Asp	Ile	Arg	Asp	Val	Leu	Arg	Ser	Phe	Met	Asp	Gly	Phe	Thr	Thr	
		115				120						125				
Leu	Lys	Glu	Asn	Ile	Met	Arg	Phe	Trp	Arg	Ser	Pro	Asn	Pro	Gly	Ser	
130						135				140						
Trp	Val	Ser	Cys	Glu	Gln	Val	Leu	Leu	Ala	Leu	Leu	Leu	Leu	Leu	Ala	
145				150						155				160		
Leu	Leu	Leu	Pro	Leu	Leu	Ser	Gly	Gly	Leu	His	Leu	Leu	Leu	Lys		
			165						170						175	

<210> 4848

<211> 179

<212> PRT

<213> Homo sapiens

<400> 4848

Ser Thr Leu Arg Ile Pro Gly Pro Cys Phe Pro Ser Glu Lys Thr His
1 5 10 15

Asn His Asp Pro Gln Pro Gly Asp Pro Asn Ser Arg Pro Ser Ser Pro
20 25 30

Lys Pro Ala Gln Pro Ala Leu Lys Met Gln Val Leu Tyr Glu Phe Glu
35 40 45

Ala Arg Asn Pro Arg Glu Leu Thr Val Val Gln Gly Glu Lys Leu Glu
50 55 60

Val Leu Asp His Ser Lys Arg Trp Trp Leu Val Lys Asn Glu Ala Gly
65 70 75 80

4404

Arg	Ser	Gly	Tyr	Ile	Pro	Ser	Asn	Ile	Leu	Glu	Pro	Leu	Gln	Pro	Gly	
				85					90				95			
Thr	Pro	Gly	Thr	Gln	Gly	Gln	Ser	Pro	Ser	Arg	Val	Pro	Met	Leu	Arg	
				100					105				110			
Leu	Ser	Ser	Arg	Pro	Glu	Glu	Val	Thr	Asp	Trp	Leu	Gln	Ala	Glu	Asn	
				115					120				125			
Phe	Ser	Thr	Ala	Thr	Val	Arg	Thr	Leu	Gly	Ser	Leu	Thr	Gly	Ser	Gln	
				130					135				140			
Leu	Leu	Arg	Ile	Arg	Pro	Gly	Glu	Leu	Gln	Met	Leu	Cys	Pro	Gln	Glu	
145					150				155				160			
Ala	Pro	Arg	Ile	Leu	Ser	Arg	Leu	Glu	Ala	Val	Arg	Arg	Met	Leu	Gly	
				165				170				175				
Ile	Ser	Pro														

<210> 4849

 $\langle 211 \rangle$ 111

<212> PRT

<213> Homo sapiens

<400> 4849

Leu	Arg	Arg	Ser	Gly	Leu	Ser	Arg	Asp	Ala	Thr	Leu	Thr	Cys	Leu	Val
1				5					10					15	
Pro	Ser	Ala	Ala	Phe	Gly	Cys	Ala	Gly	Lys	Leu	Arg	Arg	Gln	Trp	Pro
			20					25					30		
Arg	Asp	Pro	Ala	Cys	Leu	Arg	Arg	Pro	Arg	Leu	Asp	Ala	Lys	Glu	Leu
		35					40					45			
Gln	His	Pro	Gly	Asp	Lys	Met	Pro	Thr	Gly	Lys	Gln	Leu	Ala	Asp	Ile
	50					55					60				
Gly	Tyr	Lys	Thr	Phe	Ser	Thr	Ser	Met	Met	Leu	Leu	Thr	Val	Tyr	Gly
65					70					75					80
Gly	Tyr	Leu	Cys	Ser	Val	Arg	Val	Tyr	His	Tyr	Phe	Gln	Trp	Arg	Arg
				85					90					95	
Ala	Gln	Arg	Gln	Ala	Ala	Glu	Glu	Gln	Lys	Thr	Ser	Gly	Ile	Met	
			100					105					110		

4405

<210> 4850

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4850

Pro	Met	Gly	Arg	Arg	Leu	Trp	Arg	Leu	Leu	Leu	Ser	Pro	Gln	Leu	Pro
1				5					10					15	

Ala	Gly	Gly	Thr	Val	Ser	Pro	Phe	Pro	Gln	Gly	Thr	Trp	Leu	Ser	Gly
			20					25					30		

Gly	Asn	Ala	His	Phe	Pro	Gly	Leu	Asp	Cys	Gln	Leu	Phe	Leu	Ala	Gly
	35						40					45			

Glu	Glu	Pro	Cys	Leu	Ser	Ala	Pro	Glu	Pro	Thr	Val	Arg	Gly	Xaa	Ser
	50					55					60				

Arg	Leu	Gln	Pro	Leu	Ala	Gln	Ser	Gln	Gln	Pro	Ala	Lys	His	Thr	Glu
65					70					75					80

Gly	Asp	Cys	His	Leu	Pro	Leu	Pro	Ala	Ala	Glu	Pro	Gln	Arg	Ser	Asp
			85						90					95	

Gly	Ser	Tyr	Thr	Gly	Gln	Gly	Phe	Leu	Leu	Gly	Ile	Thr	Ser	His	Arg
			100					105					110		

Asn Gln

<210> 4851

<211> 319

<212> PRT

<213> Homo sapiens

<400> 4851

Arg	Ala	Tyr	Lys	Pro	Ser	Arg	Val	Leu	Arg	Glu	Leu	Gln	Leu	Asp	Lys
1				5					10					15	

Asp	Ser	Val	Trp	His	Gly	Cys	Gly	Glu	Val	Leu	Lys	Ala	Lys	Tyr	Lys
		20						25					30		

Gly	Lys	Ser	Tyr	Arg	Ala	Thr	Val	Glu	Ile	Val	Lys	Thr	Ala	Asp	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

45

His Ile Glu Arg Ile Lys Phe Ala Phe Tyr Glu Gln Phe Ala Asn

4407

305

310

315

<210> 4852

<211> 99

<212> PRT

<213> Homo sapiens

<400> 4852

Leu Pro Pro His His Pro Pro His Leu Phe Ser Gly Arg Val Gly Ile
 1 5 10 15

Ala Ala Gly Gly Asp Phe Gly Ser Leu Ala Thr Pro Ala Arg Thr Ala
 20 25 30

Gly Gln Pro Leu Cys Gly Asp Ala Trp Cys Pro Ile Cys Arg Pro Ser
 35 40 45

Glu Glu Cys Thr Ala Phe Thr Phe Tyr Cys Val Arg Val His Pro Asp
 50 55 60

Cys Ser Ile Gln Lys Ser Phe Phe Phe Pro His Arg Gln Ser Gly Asn
 65 70 75 80

Asp Ser Phe Pro Asp Cys Phe Cys Leu Val Pro Gly Asn Leu Glu Ser
 85 90 95

Ile Pro Gln
 :

<210> 4853

<211> 59

<212> PRT

<213> Homo sapiens

<400> 4853

Asp Pro Ser Ile Leu Glu Thr Asn Ala Pro Leu Lys Ser Asn Ile Tyr
 1 5 10 15

Thr Ala Val Asn Ile Cys Lys Val Ser Met Phe Asn Ser Leu Arg Ile
 20 25 30

Leu Arg Ile Met Asp Leu Leu Ala Lys Ile Pro Leu Lys Gln Leu Ser
 35 40 45

His Ile Ser Asn Phe Tyr Leu Gly Lys Gln Val
 50 55

4408

<210> 4854

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4854

Asp	Lys	Ala	Lys	Gly	Pro	Leu	Leu	Ala	Gly	His	Pro	Cys	Pro	Ile	Phe
1				5					10					15	

Ser	Pro	Gly	Pro	Phe	Pro	Cys	Gly	His	Arg	Glu	Val	Trp	Pro	Glu	Tyr
			20					25					30		

Pro	Thr	Pro	Ala	Pro	Leu	His	Pro	Glu	Leu	Gly	Ala	Thr	Ser	Glu	Val
		35					40					45			

Ser	Ser	Leu	Ser	Glu	His	Ala	Phe	Pro	Cys	Ser	Xaa	Arg	Gly	Met	Ser
	50					55					60				

Arg	Leu	Ser	Asp	Ala	Gly	Ala	Glu	Arg	Pro	Gly	Arg	Lys	Gly	Val	Gln
65					70					75					80

Pro	Val	Val	Cys	Lys	Ala	Leu	Val	Gly	Thr	Cys
				85					90	

<210> 4855

<211> 84

<212> PRT

<213> Homo sapiens

<400> 4855

Arg	Arg	Phe	Cys	Ser	Asn	Asn	Arg	Asp	Gln	Arg	Val	Asn	Gln	Ile	Trp
1				5					10					15	

Phe	Ser	Cys	Tyr	Asn	Cys	Met	Ile	Gln	Arg	Gln	Phe	Asn	His	Pro	Lys
			20					25					30		

Phe	Pro	Trp	Pro	Pro	Gln	Ser	Arg	Pro	Ala	Ile	Arg	Phe	Leu	Leu	Gln
		35					40					45			

Val	Gly	Val	Asn	Leu	His	Phe	Glu	Ser	Cys	Gly	Ser	Phe	Gly	Asp	Leu
	50					55					60				

4409

Val Leu Phe Tyr Phe Ala Leu Leu Ile Lys Glu Leu Val Glu Lys Lys
 65 70 75 80

Lys Lys Lys Thr

<210> 4856

<211> 105

<212> PRT

<213> Homo sapiens

<400> 4856

Val Asn Ser Arg Arg Gly Gly Lys Arg Ser Cys Arg Gly Gly Lys Asn
 1 5 10 15

Lys Pro Val Pro Thr Thr Glu Thr Pro Asn His Leu Ser Pro Val Asp
 20 25 30

Gly Pro Ala Lys Thr Ser Thr Gln Gln Asp Tyr Arg Gly Arg Asn Pro
 35 40 45

Lys Cys Trp Cys Gly Arg Ser Lys Thr Trp Gly Glu Phe Leu Asp Leu
 50 55 60

Glu Leu Arg Ala Met Gly Leu Asp Met Thr Gly Thr Asn Ser Cys His
 65 70 75 80

Met Phe Met Val Arg Cys His Thr Phe Ser Ala Val Leu Phe His Gln
 85 90 95

Tyr Leu Pro Gly Lys Gln Arg Met Cys
 100 105

<210> 4857

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

4410

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4857

Arg	Phe	Thr	Ala	Ser	Ser	Ser	Ser	Gly	Met	Val	Pro	Lys	Leu	Pro	Ala
1				5					10					15	

Gly	Lys	Met	Asn	Asn	Arg	Asp	Leu	Lys	Pro	Gln	Pro	Asp	Ile	Val	Leu
			20					25					30		

Leu	Pro	Leu	Pro	Thr	Ala	Tyr	Glu	Leu	Asp	Ser	Thr	Lys	Leu	Lys	Ser
		35					40					45			

Pro	Leu	Ile	Thr	Ser	Pro	Met	Phe	Arg	Asn	Val	Pro	Thr	Ala	Asn	Pro
	50					55					60				

Thr	Glu	Pro	Gly	Ile	Arg	Arg	Val	Pro	Gly	Ala	Ser	Xaa	Val	Ile	Arg
65					70					75					80

Glu	Ser	Ser	Ser	Thr	Thr	Gly	Met	Val	Val	Gly	Ile	Val	Ala	Ala	Ala
				85					90					95	

Ala	Leu	Cys	Ile	Leu	Ile	Leu	Leu	Tyr	Ala	Met	Tyr	Lys	Tyr	Arg	Asn
			100					105					110		

Arg	Asp	Glu	Gly	Ser	Tyr	Gln	Val	Asp	Glu	Thr	Arg	Asn	Tyr	Ile	Ser
		115					120					125			

Asn	Ser	Ala	Gln	Ser	Asn	Gly	Thr	Leu	Met	Lys	Gly	Glu	Ser	Ser	Xaa
		130				135					140				

Xaa	Arg	Arg	Ala	Gly	His	Lys	Lys	Pro	Glu	Lys	Thr	Xaa	Gly	Gln	Gly
145					150					155					160

Lys	Tyr	Leu	Thr	Trp
				165

<210> 4858

<211> 48

<212> PRT

<213> Homo sapiens

4411

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4858
 Ser Leu Ala Lys His Leu Asn His Leu Ser Ile Leu Ser Trp Xaa Ile
 1 5 10 15
 Ile Ile Lys Ala Gln Asn Asn Leu Leu Leu Glu Asn Met Cys Phe Xaa
 20 25 30
 Asn Glu Xaa Lys Xaa Ile Lys Lys Xaa Lys Lys Gly Ala Ala Gly Leu
 35 40 45

<210> 4859
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 4859
 Glu Gly Met Gly His Thr Ser Pro Arg Ala Asp Pro Ala Gly Gly Ser
 1 5 10 15
 Pro Gly Ala Gly Ser Cys Arg Pro Gly Ala Gly Pro Cys His Pro Gly

4412

20						25						30					
Arg	Ala	Arg	Asp	Met	Ala	Gly	Pro	Gly	His	Pro	Gly	Ala	Gly	Leu	Gly		
35			40				45										
Arg	Pro	Gly	Arg	His	Arg	Glu	Gly	Arg	Asp	Gly	Arg	Pro	Arg	Pro	Ser		
50		55					60										
Ala	Val	Pro	Ala	Thr	Pro	Met	His	Arg	Ser	Ser	Ser	Leu	Pro	His	Pro		
65		70				75					80						
Lys	Ala	Val	Ala	Gly	Ala												
85																	

<210> 4860

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4860

His Arg Ala Xaa Ser Glu Ala Glu Met Gln Trp Arg Leu Gln Val Asn
1 5 10 15

Arg Leu Gln Glu Leu Ile Asp Gln Leu Glu Cys Lys Ala Pro Arg Leu
20 25 30

Glu Pro Leu Arg Glu Glu Asp Leu Ala Lys Gly Pro Asp Leu His Ile
35 40 45

Leu Met Ala Gln Arg Gln Val Gln Val Ala Glu Glu Gly Leu Gln Asp
50 55 60

Phe His Arg Ala Leu Arg Cys Tyr Val Asp Phe Thr Gly Ala Gln Ser
65 70 75 80

His Cys Leu His Val Ser Ala Gln Lys Met Leu Asp Gly Ala Ser Phe
85 90 95

Thr Leu Tyr Glu Phe Trp Gln Asp Glu Ala Ser Trp Arg Arg His Gln
100 105 110

Gln Ser Pro Gly Ser Lys Ala Phe Gln Arg Ile Leu Ile Asp His Cys
115 120 125

4413

Gly Pro Arg Thr Pro Ser Pro Leu Cys Ser Ser Gln Pro Pro Gly Gly
 130 135 140

<210> 4861

<211> 595

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (392)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (393)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (571)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4861

Leu Ile Gln Asn Val Thr Gln Asn Asp Thr Gly Phe Tyr Thr Leu His
 1 5 10 15

Val Ile Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg
 20 25 30

Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys
 35 40 45

Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Thr
 50 55 60

Gln Asp Ala Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val
 65 70 75 80

Ser Pro Arg Leu Gln Leu Ser Asn Gly Asn Arg Thr Leu Thr Leu Phe
 85 90 95

Asn Val Thr Arg Asn Asp Thr Ala Ser Tyr Lys Cys Glu Thr Gln Asn
 100 105 110

Pro Val Ser Ala Arg Arg Ser Asp Ser Val Ile Leu Asn Val Leu Tyr

4414

115	120	125
Gly Pro Asp Ala Pro Thr Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser		
130	135	140
Gly Glu Asn Leu Asn Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala		
145	150	155
Gln Tyr Ser Trp Phe Val Asn Gly Thr Phe Gln Gln Ser Thr Gln Glu		
	165	170
Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys		
	180	185
Gln Ala His Asn Ser Asp Thr Gly Leu Asn Arg Thr Thr Val Thr Thr		
	195	200
Ile Thr Val Tyr Ala Glu Pro Pro Lys Pro Phe Ile Thr Ser Asn Asn		
	210	220
Ser Asn Pro Val Glu Asp Glu Asp Ala Val Ala Leu Thr Cys Glu Pro		
225	230	235
Glu Ile Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu		
	245	250
Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr		
	260	265
Leu Leu Ser Val Thr Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly Ile		
	275	280
Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn Val		
	290	300
Leu Tyr Gly Pro Asp Asp Pro Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr		
305	310	315
Arg Pro Gly Val Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro		
	325	330
Pro Ala Gln Tyr Ser Trp Leu Ile Asp Gly Asn Ile Gln Gln His Thr		
	340	345
Gln Glu Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu Tyr		
	355	360
Thr Cys Gln Ala Asn Asn Ser Ala Ser Gly His Ser Arg Thr Thr Val		
	370	380
Lys Thr Ile Thr Val Ser Ala Xaa Xaa Pro Lys Pro Ser Ile Ser Ser		

4415

```

385              390              395              400
Asn Asn Ser Lys Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys
      405              410              415
Glu Pro Glu Ala Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Gly Gln
      420              425              430
Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Gly Asn Arg Thr
      435              440              445
Leu Thr Leu Phe Asn Val Thr Arg Asn Asp Ala Arg Ala Tyr Val Cys
      450              455              460
Gly Ile Gln Asn Ser Val Ser Ala Asn Arg Ser Asp Pro Val Thr Leu
465              470              475              480
Asp Val Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp Ser
      485              490              495
Ser Tyr Leu Ser Gly Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser
      500              505              510
Asn Pro Ser Pro Gln Tyr Ser Trp Arg Ile Asn Gly Ile Pro Gln Gln
      515              520              525
His Thr Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly
      530              535              540
Thr Tyr Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser
545              550              555              560
Ile Val Lys Ser Ile Thr Val Ser Ala Ser Xaa Thr Ser Pro Gly Leu
      565              570              575
Ser Ala Gly Ala Thr Val Gly Ile Met Ile Gly Val Leu Val Gly Val
      580              585              590
Ala Leu Ile
      595

```

<210> 4862

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

4416

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4862

Pro	Val	Arg	Asn	Ser	Arg	Val	Asp	Pro	Arg	Val	Arg	Ala	Leu	Lys	Glu
1				5					10					15	

Val	Phe	Lys	Glu	Tyr	Leu	Ile	Glu	Leu	Xaa	Xaa	Leu	Gln	His	Phe	Gln
			20					25					30		

Gly	Asn	Met	Met	Asp	Phe	Leu	Ala	Phe	Lys	Glu	Arg	Leu	Tyr	Gly	Pro
		35					40					45			

Leu	Gln	Ala	Tyr	Leu	Arg	Gln	Asn	Asp	Leu	Asp	Ile	Glu	Glu	Glu	Glu
	50					55					60				

Glu	Glu	His	Phe	Glu	Val	Ile	Asn	Asp	Glu	Val	Lys	Val	Val	Ala	Arg
65						70					75				80

Lys	His	Gly	Gln	Pro	Gly	Thr	Pro	Val	Ala	Ile	Ala	Thr	Xaa	Xaa	Pro
				85					90					95	

Pro	Arg	Thr	Ser	Ala	Ala	Phe	Pro	Ala	Gln	Gln	Gln	Pro	Leu	Gln	Val
			100					105					110		

Leu	Ser	Asp	Gly	Ser	Thr	Val	Gln	Leu	Pro	Arg	Leu	Ser	Ser	Leu	Gly
		115					120					125			

Phe	Glu	Asp	Ser	Met	Cys
					130

<210> 4863

<211> 209

<212> PRT

<213> Homo sapiens

4417

<400> 4863

```

Leu Val Pro Arg Pro Arg Pro Arg Gln Leu Cys Ala Val Ile His Ser
 1             5             10             15

Leu Leu Arg Pro Gly Ala Pro Phe Pro Ala Arg Arg Arg Ala Arg Gln
          20             25             30

Leu Gly Val Gln Arg Pro Arg Asn His Glu Gln Val Ser Arg Ser Ser
      35             40             45

Glu Ala Pro Gly Thr Pro Ala His Ala Met Ala Asp Ser Glu Arg Leu
      50             55             60

Ser Ala Pro Gly Cys Trp Ala Ala Cys Thr Asn Phe Ser Arg Thr Arg
      65             70             75             80

Lys Gly Ile Leu Leu Phe Ala Glu Ile Ile Leu Cys Leu Val Ile Leu
          85             90             95

Ile Cys Phe Ser Ala Ser Thr Pro Gly Tyr Ser Ser Leu Ser Val Ile
          100             105             110

Glu Met Ile Leu Ala Ala Ile Phe Phe Val Val Tyr Met Cys Asp Leu
      115             120             125

His Thr Lys Ile Pro Phe Ile Asn Trp Pro Trp Ser Asp Phe Phe Arg
      130             135             140

Thr Leu Ile Ala Ala Ile Leu Tyr Leu Ile Thr Ser Ile Val Val Leu
      145             150             155             160

Val Glu Arg Gly Asn His Ser Lys Ile Val Ala Gly Val Leu Gly Leu
          165             170             175

Ile Ala Thr Cys Leu Phe Gly Tyr Asp Ala Tyr Val Thr Phe Pro Val
          180             185             190

Arg Gln Pro Arg His Thr Ala Ala Pro Thr Asp Pro Ala Asp Gly Pro
      195             200             205

```

Val

<210> 4864

<211> 129

<212> PRT

<213> Homo sapiens

4418

<400> 4864

Val Cys Val Arg Val Arg Gly Arg Asn Arg Ser Ala Arg Ser Leu Pro
 1 5 10 15
 Leu Glu Gln Cys Leu Pro Gln Tyr Phe Cys Arg Gly Lys Asp Arg Asn
 20 25 30
 Ser Leu Leu Gly Phe Leu Gln Ser Pro Cys Thr Cys Gln Ser Phe Ser
 35 40 45
 Tyr Gln Cys Lys Gly Asn Pro Glu Leu Arg Phe Glu Leu Ser His His
 50 55 60
 Leu His Gly Gln Ile Ser Pro Leu Pro Lys Gly Ser Phe Arg Leu Trp
 65 70 75 80
 Val Tyr Leu Phe Leu His Ala Ser Ser Trp Gln Cys Pro Val Glu Ala
 85 90 95
 Tyr Leu Pro Ile Cys Val Cys Ile His Ser Leu Lys Thr Thr Arg Gln
 100 105 110
 Lys Lys Lys Lys Lys Thr Arg Gly Gly Ala Arg Tyr Pro Ile Arg Ala
 115 120 125
 Ile

<210> 4865

<211> 316

<212> PRT

<213> Homo sapiens

<400> 4865

Cys Met Asp Phe Gly Val Leu Val Pro Thr Ala Tyr Met Phe Trp Gly
 1 5 10 15
 Leu Leu Ser Cys Ser Leu Pro Thr Phe Cys Val Met Ser Val Pro Gly
 20 25 30
 Arg Trp Pro Pro Ala Arg Trp Arg Leu Ser Ile Leu Ala Val Ser Ile
 35 40 45
 Met Pro Cys Val Cys Leu Ala Ser Leu Leu Gln Ile Leu Trp Thr Arg
 50 55 60
 Ser Ser Ser Pro Ala His His Leu Ala Ser Pro Phe Leu Cys Val Gln
 65 70 75 80

4419

```

Ile Trp Gln Cys Gly Gly Val Leu Glu Thr His Pro Cys Ser His Val
      85                      90                      95

Gly His Val Phe Pro Lys Gln Ala Pro Tyr Ser Arg Asn Lys Ala Leu
      100                      105                      110

Ala Asn Ser Val Arg Ala Ala Glu Val Trp Met Asp Glu Phe Lys Glu
      115                      120                      125

Leu Tyr Tyr His Arg Asn Pro Arg Ala Arg Leu Glu Pro Phe Gly Asp
      130                      135                      140

Val Thr Glu Arg Lys Gln Leu Arg Asp Lys Leu Gln Cys Lys Asp Phe
      145                      150                      155                      160

Lys Trp Phe Leu Glu Thr Val Tyr Pro Glu Leu His Val Pro Glu Asp
      165                      170                      175

Arg Pro Gly Phe Phe Gly Met Leu Gln Asn Lys Gly Leu Thr Asp Tyr
      180                      185                      190

Cys Phe Asp Tyr Asn Pro Pro Asp Glu Asn Gln Ile Val Gly His Gln
      195                      200                      205

Val Ile Leu Tyr Leu Cys His Gly Met Gly Gln Asn Gln Phe Phe Glu
      210                      215                      220

Tyr Thr Ser Gln Lys Glu Ile Arg Tyr Asn Thr His Gln Pro Glu Gly
      225                      230                      235                      240

Cys Ile Ala Val Glu Ala Gly Met Asp Thr Leu Ile Met His Leu Cys
      245                      250                      255

Glu Glu Thr Ala Pro Glu Asn Gln Lys Phe Ile Leu Gln Glu Asp Gly
      260                      265                      270

Ser Leu Phe His Glu Gln Ser Lys Lys Cys Val Gln Ala Ala Arg Lys
      275                      280                      285

Glu Ser Ser Asp Ser Phe Val Pro Leu Leu Arg Asp Cys Thr Asn Ser
      290                      295                      300

Asp His Gln Lys Trp Phe Phe Lys Glu Arg Met Leu
      305                      310                      315

```

<210> 4866

<211> 220

<212> PRT

<213> Homo sapiens

4420

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4866

Lys Ala Arg Arg Arg Gly Thr Met Ala Ala Ala Asp Glu Arg Ser
 1 5 10 15

Pro Glu Asp Gly Glu Asp Glu Glu Glu Glu Gln Leu Val Leu Val
 20 25 30

Glu Leu Ser Gly Ile Ile Asp Ser Xaa Phe Leu Ser Lys Cys Glu Asn
 35 40 45

Lys Cys Lys Val Leu Gly Ile Asp Thr Glu Arg Pro Ile Leu Gln Val
 50 55 60

Asp Ser Cys Val Phe Ala Gly Glu Tyr Glu Asp Thr Leu Gly Thr Cys
 65 70 75 80

Val Ile Phe Glu Glu Asn Val Glu His Ala Asp Thr Glu Gly Asn Asn
 85 90 95

Lys Thr Val Leu Lys Tyr Lys Cys His Thr Met Lys Lys Leu Ser Met
 100 105 110

Thr Arg Thr Leu Leu Thr Glu Lys Lys Glu Gly Glu Glu Asn Ile Gly
 115 120 125

Gly Val Glu Trp Leu Gln Ile Lys Asp Asn Asp Phe Ser Tyr Arg Pro
 130 135 140

Asn Met Ile Cys Asn Phe Leu His Glu Asn Glu Asp Glu Glu Val Val
 145 150 155 160

Ala Ser Ala Pro Asp Lys Ser Leu Glu Leu Glu Glu Glu Ile Gln
 165 170 175

Met Asn Asp Ser Ser Asn Leu Ser Cys Glu Gln Glu Lys Pro Met His
 180 185 190

Leu Glu Ile Glu Asp Ser Gly Pro Leu Ile Asp Ile Pro Ser Glu Thr
 195 200 205

Glu Gly Ser Val Phe Met Glu Thr Gln Met Leu Pro
 210 215 220

4421

<210> 4867

<211> 88

<212> PRT

<213> Homo sapiens

<400> 4867

Lys	Thr	Leu	Phe	Thr	Tyr	Ser	Phe	His	Gly	Tyr	Asn	Thr	Leu	Ala	Asp
1				5					10					15	

Phe	Leu	Leu	Ala	Leu	Gly	Ala	Met	Ile	Leu	Ile	Thr	Phe	Cys	Lys	Val
			20					25					30		

Thr	Asn	Val	Ile	His	Ser	Thr	Leu	Cys	Gly	Ser	His	Leu	Phe	Arg	Leu
		35					40					45			

Met	Cys	Phe	Gly	Glu	Arg	Lys	Lys	Phe	Leu	Ala	Glu	Tyr	Tyr	Phe	Glu
	50					55					60				

Leu	Ser	Arg	Thr	Leu	Ser	His	Gln	Arg	Gln	Phe	Phe	Ser	Val	Gln	Phe
65					70					75					80

Pro	Ile	Pro	Asp	Asn	Leu	Leu	Lys
				85			

<210> 4868

<211> 64

<212> PRT

<213> Homo sapiens

<400> 4868

Ser	Leu	Ile	Cys	Tyr	Val	Gln	Ser	Leu	Lys	Ala	Thr	Thr	His	Phe	Phe
1				5					10					15	

Leu	Lys	Val	Asp	Ala	Phe	Ser	Ala	Val	Leu	Glu	Ser	Val	Phe	Cys	Phe
			20					25					30		

Trp	Gln	Glu	Ser	Cys	Lys	Leu	Cys	Ile	Leu	Lys	Gln	Met	Gln	Lys	Val
		35					40					45			

Val	Leu	Cys	Lys	Thr	Phe	Val	Phe	Cys	Leu	Ser	Gln	Ile	Asn	Ile	Leu
	50					55					60				

<210> 4869

<211> 66

4422

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4869

Met	Cys	Arg	Leu	Cys	Ile	Cys	Val	Asn	Ile	Tyr	Thr	Pro	Arg	Cys	His
1				5					10					15	

Ser	Lys	Cys	Leu	Glu	Ile	Thr	Val	His	Thr	Cys	Xaa	Leu	Pro	Ser	Ser
			20					25					30		

Leu	Glu	Leu	Leu	Ser	Cys	Asn	Met	Ala	Leu	Lys	Asn	Tyr	Pro	Ile	Ser
			35				40					45			

Xaa	Val	Leu	Cys	Leu	Gly	Asn	Met	Val	Asn	Trp	Arg	Ile	Leu	Thr	His
	50					55					60				

Ser	Val
65	

<210> 4870

<211> 81

<212> PRT

<213> Homo sapiens

<400> 4870

Arg	His	Leu	Leu	Ile	His	Gly	Leu	Tyr	Arg	Asn	Glu	Ala	Gly	Cys	Asn
1				5					10					15	

Thr	Asn	Leu	Glu	Ser	Pro	Ser	Trp	Arg	Thr	Ile	Lys	Leu	Phe	Lys	Asp
			20					25					30		

His	Pro	Trp	Pro	Gly	Thr	Val	Val	His	Thr	Cys	Asn	Pro	Ser	Thr	Leu
			35				40					45			

Gly	Gly	Leu	Gly	Arg	Gln	Thr	Glu	Leu	Arg	Ser	Leu	Arg	Pro	Ala	Trp
			50			55					60				

Ala	Thr	Trp	Gln	Lys	Pro	Thr	Ser	Thr	Lys	Ser	Thr	Lys	Ile	Ser	Arg
65					70					75					80

4423

Ala

<210> 4871

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4871

Ala	Gly	Gln	Arg	His	Ser	Pro	Trp	Pro	Leu	Ile	Ala	Leu	Leu	Val	Arg
1				5					10					15	

Ala	Asp	Gly	Xaa	Pro	Arg	Ser	Val	Val	Pro	Ala	Trp	Xaa	Thr	Glu	Ala
		20						25					30		

Pro	Xaa	Ala	Thr	Leu	Glu	Xaa	Arg	Phe	Thr	Pro	His	Ala	Glu	Met	Asp
	35						40					45			

Leu	Gly	Gln	Leu	Ser	Ser	Gln	Asp	Val	Gly	Gln	Ala	Ser	Phe	Lys	Tyr
	50					55					60				

Phe	Gln	Ser	Ala	Glu	Glu	Ala	Lys	Arg	Ala	Ile	Glu	Ala	Val	Leu	Ser
65					70					75					80

Ala	Asp	Pro	Arg	Ser	Val	Tyr	Arg	Arg	Lys	Leu	Cys	Gln	Asp	Arg	Leu
				85					90					95	

Phe	Tyr	Phe	Thr	Val	Asp	Ile	Ala	His	Val	Thr	Cys	Trp	Phe	Gly	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4424

100 105 110
 Gly Phe Ala Glu Val Leu Arg Ile Lys Pro Ala Ser Glu Pro Val His
 115 120 125
 Met Thr Gly Pro Val Gly Ser Leu Val Ser Leu Gly Ser
 130 135 140

 <210> 4872
 <211> 241
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 4872
 Val Ser Val Gly Gly Leu Ile Xaa Asn Leu Ile Gly Ile Cys Ala Phe
 1 5 10 15
 Ser His Ala His Ser His Ala His Gly Ala Ser Gln Gly Ser Cys His
 20 25 30
 Ser Ser Asp His Ser His Ser His His Met His Gly His Ser Asp His
 35 40 45
 Gly His Gly His Ser His Gly Ser Ala Gly Gly Gly Met Asn Ala Asn
 50 55 60
 Met Arg Gly Val Phe Leu His Val Leu Ala Asp Thr Leu Gly Ser Ile
 65 70 75 80
 Gly Val Ile Val Ser Thr Val Leu Ile Glu Gln Phe Gly Trp Phe Ile
 85 90 95
 Ala Asp Pro Leu Cys Ser Leu Phe Ile Ala Ile Leu Ile Phe Leu Ser
 100 105 110
 Val Val Pro Leu Ile Lys Asp Ala Cys Gln Val Leu Leu Leu Arg Leu
 115 120 125
 Pro Pro Glu Tyr Glu Lys Glu Leu His Ile Ala Leu Glu Lys Ile Gln
 130 135 140
 Lys Ile Glu Gly Leu Ile Ser Tyr Arg Asp Pro His Phe Trp Arg His
 145 150 155 160

4425

Ser Ala Ser Ile Val Ala Gly Thr Ile His Ile Gln Val Thr Ser Asp
 165 170 175

Val Leu Glu Gln Arg Ile Val Gln Gln Val Thr Gly Ile Leu Lys Asp
 180 185 190

Ala Gly Val Asn Asn Leu Thr Ile Gln Val Glu Lys Glu Ala Tyr Phe
 195 200 205

Gln His Met Ser Gly Leu Ser Thr Gly Phe His Asp Val Leu Ala Met
 210 215 220

Thr Lys Gln Met Glu Ser Met Lys Tyr Cys Lys Asp Gly Thr Tyr Ile
 225 230 235 240

Met

<210> 4873

<211> 375

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4873

Ser Phe Gly Glu Arg Ala Pro Ser Thr Arg Ser Gly Asp Pro Leu Val
 1 5 10 15

Ala Val Leu Pro Thr Arg Thr Arg Val Pro Gln Ala Ser Arg Cys Pro
 20 25 30

Ala Gly Ser Ser Cys Pro Thr Pro Gly Ala Arg Pro Pro Ala Ser Pro
 35 40 45

Gly Pro Leu Pro Arg Pro Ser Ser Arg Arg Ala Arg Ser Met Ala Pro
 50 55 60

Pro Gln Val Leu Ala Phe Gly Leu Leu Leu Ala Ala Ala Thr Ala Thr
 65 70 75 80

Phe Ala Ala Ala Gln Glu Glu Cys Val Cys Glu Asn Tyr Lys Leu Ala
 85 90 95

Val Asn Cys Phe Val Asn Asn Asn Arg Gln Cys Gln Cys Thr Ser Val
 100 105 110

4426

Gly	Ala	Gln	Asn	Thr	Val	Ile	Cys	Ser	Lys	Leu	Ala	Ala	Lys	Cys	Leu	115	120	125	
Val	Met	Lys	Ala	Glu	Met	Asn	Gly	Ser	Lys	Leu	Gly	Arg	Arg	Ala	Lys	130	135	140	
Pro	Glu	Gly	Ala	Leu	Gln	Asn	Asn	Asp	Gly	Leu	Tyr	Asp	Pro	Asp	Cys	145	150	155	160
Asp	Glu	Ser	Gly	Leu	Phe	Lys	Ala	Lys	Gln	Cys	Asn	Gly	Thr	Ser	Xaa	165	170	175	
Cys	Trp	Cys	Val	Asn	Thr	Ala	Gly	Val	Arg	Arg	Thr	Asp	Lys	Asp	Thr	180	185	190	
Glu	Ile	Thr	Cys	Ser	Glu	Arg	Val	Arg	Thr	Tyr	Trp	Ile	Ile	Ile	Glu	195	200	205	
Leu	Lys	His	Lys	Ala	Arg	Glu	Lys	Pro	Tyr	Asp	Ser	Lys	Ser	Leu	Arg	210	215	220	
Thr	Ala	Leu	Gln	Lys	Glu	Ile	Thr	Thr	Arg	Tyr	Gln	Leu	Asp	Pro	Lys	225	230	235	240
Phe	Ile	Thr	Ser	Ile	Leu	Tyr	Glu	Asn	Asn	Val	Ile	Thr	Ile	Asp	Leu	245	250	255	
Val	Gln	Asn	Ser	Ser	Gln	Lys	Thr	Gln	Asn	Asp	Val	Asp	Ile	Ala	Asp	260	265	270	
Val	Ala	Tyr	Tyr	Phe	Glu	Lys	Asp	Val	Lys	Gly	Glu	Ser	Leu	Phe	His	275	280	285	
Ser	Lys	Lys	Met	Asp	Leu	Thr	Val	Asn	Gly	Glu	Gln	Leu	Asp	Leu	Asp	290	295	300	
Pro	Gly	Gln	Thr	Leu	Ile	Tyr	Tyr	Val	Asp	Glu	Lys	Ala	Pro	Glu	Phe	305	310	315	320
Ser	Met	Gln	Gly	Leu	Lys	Ala	Gly	Val	Ile	Ala	Val	Ile	Val	Val	Val	325	330	335	
Val	Ile	Ala	Val	Val	Ala	Gly	Ile	Val	Val	Leu	Val	Ile	Ser	Arg	Lys	340	345	350	
Lys	Arg	Met	Ala	Lys	Tyr	Glu	Lys	Ala	Glu	Ile	Lys	Glu	Met	Gly	Glu	355	360	365	
Met	His	Arg	Glu	Leu	Asn	Ala										370	375		

4427

<210> 4874

<211> 106

<212> PRT

<213> Homo sapiens

<400> 4874

```

Ile Asn Gln Gln Leu Ala Leu Tyr Ile Trp Lys Ser Cys Arg His Ser
 1              5              10              15

Met Pro Ala Tyr Glu Ser Ser Leu Glu Trp Gly Cys Thr Leu Gln Arg
          20              25              30

His Arg Gly Arg Ala Ala Lys Thr Met Arg Val Tyr Phe Phe His Gln
          35              40              45

Cys Asp Leu Asn Val Arg His Arg Val Lys Gly Asp Tyr Phe Gly Ala
          50              55              60

Val Lys Phe Asn Glu Tyr Pro Ala Gly Phe Trp Thr Cys His Trp Leu
 65              70              75              80

Leu Ala Pro Leu Phe Cys Pro Ile Leu Leu Tyr Gly Met Gly Ala Ser
          85              90              95

Ser Ser Asn Ala Cys Thr Leu Ile Val Ser
          100              105

```

<210> 4875

<211> 91

<212> PRT

<213> Homo sapiens

<400> 4875

```

Gln Ser Ala Met Ser Ser Arg Pro Leu Glu Ser Pro Pro Pro Tyr Arg
 1              5              10              15

Pro Asp Glu Phe Lys Pro Asn His Tyr Ala Pro Ser Asn Asp Ile Tyr
          20              25              30

Gly Gly Glu Met His Val Arg Pro Met Leu Ser Gln Pro Ala Tyr Ser
          35              40              45

Phe Tyr Pro Glu Asp Glu Ile Leu His Phe Tyr Lys Trp Thr Ser Pro
          50              55              60

Pro Gly Val Ile Arg Ile Leu Ser Met Leu Ile Ile Val Met Cys Ile

```

4428

65 70 75 80

Ala Ile Phe Ala Cys Val Ala Ser Arg Leu Pro

85 90

<210> 4876

<211> 88

<212> PRT

<213> Homo sapiens

<400> 4876

Tyr Arg Lys Leu Phe Phe Pro Gln Leu Phe Glu Gln His Ser Ser Phe
1 5 10 15

Glu Asn Ser Cys Arg Ser Gln Phe Phe Val Thr Val Val Gln Ile Leu
20 25 30

Cys Phe Leu Ser Leu Met Lys Ser Ser Ile Glu Ala Ile Phe His Thr
35 40 45

Met Cys Tyr Ile Cys Val Arg Arg Cys Val Asn Ile Lys Ser His Thr
50 55 60

His Ile Tyr Thr His Val Lys Ile Tyr Ile Tyr Ile Tyr Ala Cys Glu
65 70 75 80

Val Glu Ser Leu Pro Phe Pro Ile
85

<210> 4877

<211> 88

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

4429

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4877

Lys	Cys	Trp	Tyr	Tyr	Tyr	Phe	His	Tyr	Arg	Ala	Phe	Gly	Pro	Leu	Ile
1				5					10					15	
Met	Leu	Arg	Trp	Ala	Asp	Pro	Ser	Xaa	Phe	Cys	Xaa	Arg	Val	Ile	Leu
			20					25					30		
Gly	Arg	Val	Phe	Ser	Ser	Thr	Val	Lys	Val	Arg	Gln	Ser	Gly	Ser	Val
			35				40					45			
Thr	Gly	Asp	Trp	Asp	Ile	Trp	Asn	Lys	Leu	Arg	Trp	Asp	Thr	His	Ser
		50				55					60				
Glu	Glu	Arg	Leu	His	Gly	Ile	Leu	Trp	Gly	Thr	Asn	Tyr	Cys	Xaa	Ile
	65				70					75					80
Thr	Ser	Asp	Val	Asn	Met	Ala	His								
				85											

<210> 4878

<211> 86

<212> PRT

<213> Homo sapiens

<400> 4878

Gly	Thr	Lys	Leu	Asp	Gly	His	Gln	Thr	Gln	Gly	Phe	Val	Lys	Ile	Arg
1				5					10					15	
Pro	Pro	Ile	Pro	Leu	Thr	Gly	Ser	Val	Arg	Cys	Val	Lys	Leu	Leu	Ser
			20					25					30		
Pro	Val	His	His	Ala	Ser	Met	Ser	Pro	Gln	Asp	Trp	Asp	Leu	Ser	Leu
		35					40					45			
Pro	Gly	Ser	Leu	Ser	Leu	Gly	Ala	Asp	Met	Glu	Pro	Ser	Leu	Arg	Asp
		50				55					60				
Gln	Val	Asp	Ala	Glu	Ala	His	Pro	Val	Arg	Ala	Pro	Leu	Leu	Ala	Pro
	65				70					75					80
Phe	Thr	Leu	Lys	Leu	Ile										
				85											

<210> 4879

<211> 106

4430

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4879

Phe	Cys	Ser	Trp	Phe	Ser	Leu	Gln	Ala	Leu	Ala	Lys	Pro	Cys	Pro	Arg
1				5					10					15	

Ser	Pro	Gln	Thr	Leu	Arg	Ala	His	Asp	Gln	Lys	Glu	Lys	Glu	Ser	Gln
			20					25					30		

Val	Gly	Glu	Glu	Gln	Gly	Pro	Gln	Leu	His	Ser	Pro	Pro	Leu	Xaa	Pro
		35					40					45			

Glu	Gly	Pro	Pro	Trp	Ala	Ala	Trp	Asn	Pro	Leu	Lys	Leu	Pro	Pro	Pro
	50					55					60				

Gln	His	Ser	Ser	Gly	Ala	Val	Pro	Gly	Ser	Ala	Cys	Ser	Pro	Trp	Ala
65					70					75					80

Gly	Ser	Val	Pro	Ala	Ala	Pro	Pro	Ser	Val	Cys	Tyr	Leu	Ile	Tyr	Trp
				85					90					95	

Asn	Leu	His	Ser	Gln	Ala	Leu	Ala	His	Arg
			100					105	

<210> 4880

<211> 74

<212> PRT

<213> Homo sapiens

<400> 4880

Asn	Val	Ala	Cys	Asn	Thr	Val	Leu	Pro	Ala	Lys	Phe	Ser	Thr	Phe	Cys
1				5					10					15	

Asn	Leu	Phe	Tyr	Phe	Phe	Gly	Cys	Lys	Ala	Phe	Leu	Leu	Ser	Ile	Val
			20					25					30		

Ile	Leu	Tyr	Met	Phe	Cys	Pro	Ser	Cys	Ile	Val	Met	Phe	Gln	Ser	Ile
		35						40				45			

Ile	Gln	Leu	Trp	Leu	Leu	Lys	Ser	Tyr	Ser	Cys	Glu	Asp	Leu	Pro	Leu
	50					55					60				

Phe	Leu	Leu	Asp	Cys	Phe	Ser	Val	Leu	Tyr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4431

65

70

<210> 4881

<211> 201

<212> PRT

<213> Homo sapiens

<400> 4881

Cys Asn Leu Ala Lys Gly Val Ile Ser Ile Ser Phe Leu Lys Glu Glu
 1 5 10 15

Glu Gln Glu Asp Glu Glu Glu Ile Asp Val Val Ser Val Glu Lys Arg
 20 25 30

Gln Ala Pro Gly Lys Arg Ser Glu Ser Gly Ser Pro Ser Ala Gly Gly
 35 40 45

His Ser Lys Pro Pro His Ser Pro Leu Val Leu Lys Arg Cys His Val
 50 55 60

Ser Thr His Gln His Asn Tyr Ala Ala Pro Pro Ser Thr Arg Lys Asp
 65 70 75 80

Tyr Pro Ala Ala Lys Arg Val Lys Leu Asp Ser Val Arg Val Leu Arg
 85 90 95

Gln Ile Ser Asn Asn Arg Lys Cys Thr Ser Pro Arg Ser Ser Asp Thr
 100 105 110

Glu Glu Asn Val Lys Arg Arg Thr His Asn Val Leu Glu Arg Gln Arg
 115 120 125

Arg Asn Glu Leu Lys Arg Ser Phe Phe Ala Leu Arg Asp Gln Ile Pro
 130 135 140

Glu Leu Glu Asn Asn Glu Lys Ala Pro Lys Val Val Ile Leu Lys Lys
 145 150 155 160

Ala Thr Ala Tyr Ile Leu Ser Val Gln Ala Glu Glu Gln Lys Leu Ile
 165 170 175

Ser Glu Glu Asp Leu Leu Arg Lys Arg Arg Glu Gln Leu Lys His Lys
 180 185 190

Leu Glu Gln Leu Arg Asn Ser Cys Ala
 195 200

4432

<210> 4882

<211> 60

<212> PRT

<213> Homo sapiens

<400> 4882

Lys	Gly	Ile	Val	Arg	Met	Ser	Leu	Ser	Ser	Gly	Ser	Thr	Thr	Ala	Val
1				5					10					15	
Ser	Tyr	Leu	Gly	Pro	Val	Leu	Ser	Gln	Gly	Gly	Trp	Leu	Val	Lys	Val
			20					25					30		
Met	Cys	Asp	Leu	Arg	Arg	Leu	Ser	Cys	His	Leu	Pro	His	Val	Asn	Arg
		35					40					45			
Lys	Gly	Gly	Ile	Leu	Pro	Pro	Pro	Glu	Tyr	Thr	Gly				
	50					55					60				

<210> 4883

<211> 737

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (555)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (602)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4883

Pro	Pro	Arg	Gly	Leu	Asp	Pro	Gly	Ser	Cys	Cys	Cys	Cys	Arg	Cys	Cys
1				5					10					15	
Cys	Pro	Leu	Arg	Pro	Gln	Pro	Pro	Thr	Gly	Pro	Gly	Ala	Ala	Asp	Pro
			20					25					30		
Val	Asn	Pro	Glu	Lys	Leu	Leu	Val	Ile	Thr	Val	Ala	Thr	Ala	Glu	Thr
		35					40					45			
Glu	Gly	Tyr	Leu	Arg	Phe	Leu	Arg	Ser	Ala	Glu	Phe	Phe	Asn	Tyr	Thr
	50					55					60				
Val	Arg	Thr	Leu	Gly	Leu	Gly	Glu	Glu	Trp	Arg	Gly	Gly	Asp	Val	Ala
	65					70				75					80

4433

Arg	Thr	Val	Gly	Gly	Gly	Gln	Lys	Val	Arg	Trp	Leu	Lys	Lys	Glu	Met	85	90	95	
Glu	Lys	Tyr	Ala	Asp	Arg	Glu	Asp	Met	Ile	Ile	Met	Phe	Val	Asp	Ser	100	105	110	
Tyr	Asp	Val	Ile	Leu	Ala	Gly	Ser	Pro	Thr	Glu	Leu	Leu	Lys	Lys	Phe	115	120	125	
Val	Gln	Ser	Gly	Ser	Arg	Leu	Leu	Phe	Ser	Ala	Glu	Ser	Phe	Cys	Trp	130	135	140	
Pro	Glu	Trp	Gly	Leu	Ala	Glu	Gln	Tyr	Pro	Glu	Val	Gly	Thr	Gly	Lys	145	150	155	160
Arg	Phe	Leu	Asn	Ser	Gly	Gly	Phe	Ile	Gly	Phe	Ala	Thr	Thr	Ile	His	165	170	175	
Gln	Ile	Val	Arg	Gln	Trp	Lys	Tyr	Lys	Asp	Asp	Asp	Asp	Asp	Gln	Leu	180	185	190	
Phe	Tyr	Thr	Arg	Leu	Tyr	Leu	Asp	Pro	Gly	Leu	Arg	Glu	Lys	Leu	Ser	195	200	205	
Leu	Asn	Leu	Asp	His	Lys	Ser	Arg	Ile	Phe	Gln	Asn	Leu	Asn	Gly	Ala	210	215	220	
Leu	Asp	Glu	Val	Val	Leu	Lys	Phe	Asp	Arg	Asn	Arg	Val	Arg	Ile	Arg	225	230	235	240
Asn	Val	Ala	Tyr	Asp	Thr	Leu	Pro	Ile	Val	Val	His	Gly	Asn	Gly	Pro	245	250	255	
Thr	Lys	Leu	Gln	Leu	Asn	Tyr	Leu	Gly	Asn	Tyr	Val	Pro	Asn	Gly	Trp	260	265	270	
Thr	Pro	Glu	Gly	Gly	Cys	Gly	Phe	Cys	Asn	Gln	Asp	Arg	Arg	Thr	Leu	275	280	285	
Pro	Gly	Gly	Gln	Pro	Pro	Pro	Arg	Val	Phe	Leu	Ala	Val	Phe	Val	Glu	290	295	300	
Gln	Pro	Thr	Pro	Phe	Leu	Pro	Arg	Phe	Leu	Gln	Arg	Leu	Leu	Leu	Leu	305	310	315	320
Asp	Tyr	Pro	Pro	Asp	Arg	Val	Thr	Leu	Phe	Leu	His	Asn	Asn	Glu	Val	325	330	335	
Phe	His	Glu	Pro	His	Ile	Ala	Asp	Ser	Trp	Pro	Gln	Leu	Gln	Asp	His	340	345	350	

4434

Phe	Ser	Ala	Val	Lys	Leu	Val	Gly	Pro	Glu	Glu	Ala	Leu	Ser	Pro	Gly	355	360	365	
Glu	Ala	Arg	Asp	Met	Ala	Met	Asp	Leu	Cys	Arg	Gln	Asp	Pro	Glu	Cys	370	375	380	
Glu	Phe	Tyr	Phe	Ser	Leu	Asp	Ala	Asp	Ala	Val	Leu	Thr	Asn	Leu	Gln	385	390	395	400
Thr	Leu	Arg	Ile	Leu	Ile	Glu	Glu	Asn	Arg	Lys	Val	Ile	Ala	Pro	Met	405	410	415	
Leu	Ser	Arg	His	Gly	Lys	Leu	Trp	Ser	Asn	Phe	Trp	Gly	Ala	Leu	Ser	420	425	430	
Pro	Asp	Glu	Tyr	Tyr	Ala	Arg	Ser	Glu	Asp	Tyr	Val	Glu	Leu	Val	Gln	435	440	445	
Arg	Lys	Arg	Val	Gly	Val	Trp	Asn	Val	Pro	Tyr	Ile	Ser	Gln	Ala	Tyr	450	455	460	
Val	Ile	Arg	Gly	Asp	Thr	Leu	Arg	Met	Glu	Leu	Pro	Gln	Arg	Asp	Val	465	470	475	480
Phe	Ser	Gly	Ser	Asp	Thr	Asp	Pro	Asp	Met	Ala	Phe	Cys	Lys	Ser	Phe	485	490	495	
Arg	Asp	Lys	Gly	Ile	Phe	Leu	His	Leu	Ser	Asn	Gln	His	Glu	Phe	Gly	500	505	510	
Arg	Leu	Leu	Ala	Thr	Ser	Arg	Tyr	Asp	Thr	Glu	His	Leu	His	Pro	Asp	515	520	525	
Leu	Trp	Gln	Ile	Phe	Asp	Asn	Pro	Val	Asp	Trp	Lys	Glu	Gln	Tyr	Ile	530	535	540	
His	Glu	Asn	Tyr	Ser	Arg	Ala	Leu	Glu	Gly	Xaa	Gly	Ile	Val	Glu	Gln	545	550	555	560
Pro	Cys	Pro	Asp	Val	Tyr	Trp	Phe	Pro	Leu	Leu	Ser	Glu	Gln	Met	Cys	565	570	575	
Asp	Glu	Leu	Val	Ala	Glu	Met	Glu	His	Tyr	Gly	Gln	Trp	Ser	Gly	Gly	580	585	590	
Arg	His	Glu	Asp	Ser	Arg	Leu	Ala	Gly	Xaa	Tyr	Glu	Asn	Val	Pro	Thr	595	600	605	
Val	Asp	Ile	His	Met	Lys	Gln	Val	Gly	Tyr	Glu	Asp	Gln	Trp	Leu	Gln	610	615	620	

4435

Leu Leu Arg Thr Tyr Val Gly Pro Met Thr Glu Ser Leu Phe Pro Gly
 625 630 635 640
 Tyr His Thr Lys Ala Arg Ala Val Met Asn Phe Val Val Arg Tyr Arg
 645 650 655
 Pro Asp Glu Gln Pro Ser Leu Arg Pro His His Asp Ser Ser Thr Phe
 660 665 670
 Thr Leu Asn Val Ala Leu Asn His Lys Gly Leu Asp Tyr Glu Gly Gly
 675 680 685
 Gly Cys Arg Phe Leu Arg Tyr Asp Cys Val Ile Ser Ser Pro Arg Lys
 690 695 700
 Gly Trp Ala Leu Leu His Pro Gly Arg Leu Thr His Tyr His Glu Gly
 705 710 715 720
 Leu Pro Thr Thr Trp Gly Thr Arg Tyr Ile Met Val Ser Phe Val Asp
 725 730 735

Pro

<210> 4884
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 4884
 Glu Thr Thr Lys Glu Tyr His Glu Gly Ile Tyr Ala Pro Val Leu Ala
 1 5 10 15
 Ile Ile Cys Leu Arg Arg Asn Leu Leu Asn Lys Ser Phe Tyr Pro Leu
 20 25 30
 Thr Phe Thr Phe Ile Arg Pro Tyr Lys Arg Ser Asn Gly Asp Leu Lys
 35 40 45
 Phe Phe Ser His Lys Ser Tyr Leu Phe Ser Ile Ser Ala Lys Ser Arg
 50 55 60
 Ile Leu Ser Ser Lys Pro Lys Leu Thr
 65 70

<210> 4885
 <211> 76

4436

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4885

Arg	Lys	Lys	Pro	Ile	Tyr	Ile	Asn	Val	Xaa	Arg	Asp	Pro	Ile	Glu	Arg
1				5					10					15	

Leu	Val	Ser	Tyr	Tyr	Tyr	Phe	Leu	Arg	Xaa	Gly	Asp	Asp	Tyr	Arg	Pro
			20					25					30		

Gly	Leu	Arg	Arg	Arg	Lys	Gln	Gly	Asp	Lys	Lys	Thr	Phe	Asp	Glu	Cys
		35					40					45			

Val	Ala	Glu	Gly	Gly	Ser	Asp	Cys	Ala	Pro	Glu	Lys	Leu	Trp	Leu	Gln
	50					55					60				

Ile	Pro	Phe	Phe	Cys	Gly	His	Ser	Ser	Glu	Cys	Trp
65					70					75	

<210> 4886

<211> 94

<212> PRT

<213> Homo sapiens

<400> 4886

Thr	Pro	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr	Arg	Pro
1				5					10					15	

Lys	Glu	Glu	Gly	Gly	Lys	Pro	Gln	Met	Asn	Ser	Glu	Gly	Glu	Ile	Pro
			20					25					30		

Ser	Leu	Pro	Ser	Gly	Ser	Gln	Ser	Ala	Lys	Pro	Val	Ser	Gln	Pro	Arg
		35					40					45			

Lys	Ser	Thr	Gln	Pro	Asp	Val	Cys	Ala	Ser	Pro	Gln	Glu	Lys	Pro	Leu
	50					55					60				

Arg	Thr	Leu	Phe	His	Gln	Pro	Glu	Glu	Glu	Ile	Glu	Asp	Gly	Gly	Leu
65					70					75					80

4437

Phe Ile Pro Met Glu Asp Lys Thr Met Lys Lys Val Arg Lys
85 90

<210> 4887

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4887

Ile Leu Asn Glu Lys Lys Xaa Leu Xaa Lys Lys Gly Gly Arg Ser Arg
1 5 10 15

Gly Ser Lys Leu Thr Tyr Ala Cys Xaa Arg Arg His Ser Ser Ser Ile
20 25 30

Val Ser Pro
35

<210> 4888

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

4438

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4888

Arg	Glu	Gln	Lys	Leu	Glu	Leu	His	Arg	Gly	Gly	Gly	Arg	Ser	Arg	Thr
1				5					10					15	
Ser	Gly	Ser	Pro	Gly	Leu	Gln	Glu	Phe	Gly	Thr	Ser	Gly	Thr	Arg	Tyr
			20					25					30		
Pro	Gln	Gly	His	Ser	Asp	Thr	Thr	Val	Ala	Ile	Ser	Thr	Ser	Thr	Val
		35					40					45			
Leu	Leu	Cys	Xaa	Leu	Ser	Ala	Val	Ser	Leu	Leu	Ala	Cys	Tyr	Xaa	Lys
	50					55					60				
Ser	Arg	Gln	Thr	Pro	Pro	Leu	Ala	Ser	Val	Glu	Met	Glu	Ala	Met	Glu
65					70					75					80
Ala	Leu	Pro	Val	Thr	Trp	Gly	Thr	Ser	Ser	Arg	Asp	Glu	Asp	Leu	Glu
				85					90					95	
Asn	Cys	Ser	His	His	Leu										
					100										

<210> 4889

<211> 69

<212> PRT

<213> Homo sapiens

<400> 4889

Leu	Ser	Gln	Ser	Gln	Leu	Asn	Arg	His	Leu	Asn	Cys	Ile	Cys	Lys	Ile
1				5					10					15	
Leu	Ser	Leu	Leu	Pro	Tyr	Ser	Leu	Thr	Lys	Cys	Asn	Arg	Arg	Cys	Pro
			20					25					30		
His	Lys	Gly	Met	Asp	Ile	Gly	Leu	Gly	Lys	Asp	Phe	Arg	Asn	His	Leu
		35					40					45			
Arg	Ile	Leu	Pro	Thr	Thr	Asn	Ser	Ile	Leu	Gln	Val	Ser	Ile	Ser	Ser
	50					55					60				
Ile	Leu	Val	Ile	His											
65															

<210> 4890

<211> 75

4439

<212> PRT

<213> Homo sapiens

<400> 4890

Phe	Val	Ser	Glu	Gly	Asp	Phe	Pro	Ser	Tyr	Thr	Leu	Gly	Leu	Glu	Asp
1				5					10					15	

Phe	Glu	Tyr	Leu	Gly	Pro	Phe	Ser	Cys	Glu	His	Gly	Leu	Phe	Pro	His
			20					25					30		

Ser	Ser	Tyr	Leu	Leu	Thr	Arg	Gly	Ile	Leu	Gly	Arg	Asp	Leu	Arg	Ser
			35				40					45			

Ser	Phe	Ser	Cys	Phe	Pro	Glu	Gln	Ser	Leu	Lys	Phe	Thr	Val	Asn	Lys
	50					55					60				

Leu	Phe	Asp	His	Glu	Lys	Lys	Lys	Lys	Ser	Thr
65					70					75

<210> 4891

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4891

Gly	Ala	Ala	Leu	Leu	Ile	Trp	Gly	Val	Ser	Arg	Leu	Ser	Ala	Leu	Thr
1				5					10					15	

Leu	Leu	Xaa	His	Pro	Xaa	Thr	Asp	Lys	Val	Arg	Leu	Gln	Arg	Arg	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4440

			20					25					30		
Thr	Pro	Met	Cys	Tyr	Ser	Phe	Phe	Xaa	Thr	Ser	Phe	Thr	Gly	Asp	Asn
		35					40					45			
Ala	His	Thr	Val	Gln	Phe	Thr	His	Leu	Lys	Cys	Thr	Ile	Gln	Trp	Val
	50					55					60				
Leu	Val	Tyr	Ser	Trp	Gly	Leu	Cys	Asn	Pro	Xaa	Pro				
65					70					75					

<210> 4892

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4892

Glu Glu Gly Leu Arg Asn Lys Lys Ala Lys Glu Pro Phe Glu Glu Ala
1 5 10 15

Ser Cys Leu Leu Gly Ala Gly Val Cys Ala Gly Val Val Leu Arg Gly
20 25 30

Arg Lys Glu Pro Xaa Ser Pro Glu Asp Pro Pro Gly Gly Ala Gly Leu
35 40 45

Lys Phe Arg Trp Val Pro Gly Gly Ser Ala Leu Arg Ser Thr Asp Gly
50 55 60

Leu Arg Ser Gln Cys Ala Ala Arg Thr Ser Arg Ser Gly Gly Arg Val
65 70 75 80

Leu Pro Thr Pro Ala Leu Gly Ser Glu Lys Ala Ala Leu Val Leu Phe
85 90 95

Leu Gly Met Ser Ala Glu Gly Ala Pro Gly
100 105

<210> 4893

<211> 190

<212> PRT

<213> Homo sapiens

4441

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4893

Arg	His	Arg	Gln	Gln	Gln	Lys	Ala	His	Cys	Pro	His	Pro	Leu	Thr	Leu
1				5					10					15	

Asn	Phe	Leu	Ser	Leu	Phe	Lys	Ile	Leu	Ala	Ser	Asp	Cys	Ser	Ala	Ala
			20					25					30		

Xaa	Asn	Phe	Leu	Val	Pro	Ser	Trp	Gly	Xaa	Trp	Gly	Gly	Val	Tyr	Arg
		35					40					45			

Leu	Phe	Ser	Ala	Ser	Ala	Leu	Leu	Ser	Gln	Gly	Phe	Glu	Pro	Leu	Arg
	50					55					60				

Phe	Ser	Gly	Gln	Thr	Arg	Lys	Asn	Glu	Asn	Thr	Ala	Trp	Gly	Ala	Pro
65					70					75					80

Thr	Ser	Arg	Arg	Leu	Cys	Gln	Leu	Thr	Ser	Gly	His	Gly	Ala	Ala	Ala
				85					90					95	

Gly	Ala	His	Gly	Gly	Gln	Gly	Gln	Leu	His	Ile	Leu	Pro	Ser	Pro	Ser
			100					105					110		

His	Phe	Thr	Val	Ala	Pro	Asn	Pro	Ala	Arg	Arg	Glu	Arg	Val	Ser	Ala
		115					120					125			

Pro	Gln	Thr	Thr	Gly	Ser	Leu	Leu	Thr	Lys	Asn	Gly	Glu	Thr	Arg	Phe
	130					135					140				

His	Leu	Ser	Ala	Glu	Glu	Pro	Gln	Ala	Gly	Leu	Ser	Glu	Arg	Asp	Gly
145					150					155					160

Ala	Gly	Gly	Arg	Leu	Trp	Ile	Ala	Ser	Gln	Ile	Lys	Leu	Cys	Ser	Leu
				165					170					175	

Asn	Val	Ala	Ser	Arg	Gln	Glu	Lys	Ala	Trp	Gly	Leu	Asn	Ser		
			180					185					190		

<210> 4894

4442

<211> 64

<212> PRT

<213> Homo sapiens

<400> 4894

Gly Asp Lys Asn Val Leu Lys Phe Ile Val Met Met Leu Ala Ile Ser
1 5 10 15

Ile Ser Arg Leu Asn Ala Val Met Val Ala Asn Ser Ile Asn Ile Phe
20 25 30

Asn Val Val Met Val Ala Asn Ser Met Lys Asn Pro Asn Cys Thr Ile
35 40 45

Ser Met Ser Glu Ser Met Leu Cys Glu Cys Leu His Lys Gly Phe Ile
50 55 60

<210> 4895

<211> 104

<212> PRT

<213> Homo sapiens

<400> 4895

Thr Val Pro Arg Pro Arg Pro Asp Phe Ser His Ala Pro Pro Ser Thr
1 5 10 15

Ser Ala Leu Gly Cys Leu Gly Arg Glu Arg Arg Arg Gly Ala Trp Arg
20 25 30

Gly Thr Pro Gly Gln Asn Asp Ser Gly Met Ser Arg Glu Arg Lys Glu
35 40 45

Ala Pro Trp Asp Ala Gly Gly Arg Val Leu Gly Pro Gly Leu Gln Pro
50 55 60

Arg Thr Gly Ala Thr Ala Gly Pro Ser Pro Asp Arg Pro Arg Ala Gly
65 70 75 80

Gly Gln Ala Arg Val Arg Cys Ala Ala Arg Pro Arg Ser Leu Thr Thr
85 90 95

Val Pro Thr His Arg Gly Gly Pro
100

4443

<210> 4896

<211> 71

<212> PRT

<213> Homo sapiens

<400> 4896

Leu Leu Ile Pro Met Pro Leu Cys Asp Pro Ile Leu Asn Thr Ala Arg
 1 5 10 15

Ala Val Phe Gln Gln His Ser Ser Asn Leu Val Ser Ser Pro Leu Leu
 20 25 30

His Ala Ser Val Ala Phe Pro Val Thr Trp His Gly Thr Arg Pro Gln
 35 40 45

Leu Pro Tyr Ile Pro Ala Asn Ser Tyr Pro Thr Phe Leu Cys Ser His
 50 55 60

Ser Phe Leu Phe Leu Pro His
 65 70

<210> 4897

<211> 102

<212> PRT

<213> Homo sapiens

<400> 4897

Gly Cys Gly Gly Phe Gln Cys Val Glu Trp Lys Gly Asn Cys Arg Ile
 1 5 10 15

Val Ser Ala Pro His Ser Glu Gly Leu Leu Pro Val Pro Pro Arg Pro
 20 25 30

Gly Ala Ser Thr Ala Ser Pro His Ser Thr Gln Met Pro Arg Ser Ser
 35 40 45

Glu Leu Val Tyr Glu Lys Ser Pro Thr Phe Ser Pro Lys Thr Ser Leu
 50 55 60

Leu Ser Leu His Lys Lys Lys Arg Lys Gly Thr Lys Glu Lys His Ser
 65 70 75 80

Val Phe Leu Phe Leu Lys Lys Val Ser Pro Phe Leu Lys Ser Ser Asn
 85 90 95

Glu Thr Leu Ser Gly Asn
 100

4444

<210> 4898
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4898
 Pro Gln Gln Xaa Thr Ser Gln Glu Val Glu Asn Ser Lys Gln Glu Lys
 1 5 10 15
 Tyr Gln Asn Asn Tyr Thr Gln Thr Ser Glu Asn Gln Arg Gln Lys Glu
 20 25 30
 Asn Leu Gln Arg Ser Gln Arg Lys Ser Asn Leu Thr Tyr Ser Lys Thr
 35 40 45
 Gly Gln Glu Leu Asn
 50

<210> 4899
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 4899
 Gly Asn Asn Cys Arg Ser Ile Glu Val Thr Ala Lys Ile Phe Tyr Ser
 1 5 10 15
 Asn Trp Val Asn Pro Val Asn His Val Arg Asn Ser Ser Pro Arg Val
 20 25 30
 Ser Met Leu Leu Leu Tyr Phe Cys Lys His Asn Pro Leu Thr
 35 40 45

<210> 4900
 <211> 78
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (17)

4445

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4900

Leu	Leu	Phe	Asn	Leu	Pro	Ile	Glu	Leu	Leu	Gly	Phe	Lys	Lys	Tyr	Phe
1				5					10					15	

Xaa	Asn	Asp	Phe	Leu	Gly	Leu	Glu	Ser	Thr	Phe	Asn	Thr	Phe	Lys	Leu
			20					25					30		

Val	Phe	Leu	Leu	Glu	Ile	Phe	Arg	Ile	Ser	Ser	Leu	Ile	Gly	Asn	Leu
		35					40					45			

Tyr	Arg	Ser	Leu	Val	Arg	Phe	Val	Ala	Lys	Met	Cys	His	Arg	Trp	Thr
	50					55					60				

Gln	Ile	Ser	His	Ser	Gly	Ala	Ile	Ser	Tyr	His	Ser	Gly	Gly
65					70					75			

<210> 4901

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4901

Cys	Leu	Xaa	Tyr	Phe	Xaa	Met	Asp	Ile	Glu	Val	Lys	Met	Ser	Phe	Ile
1				5					10					15	

Cys	Ile	Tyr	Leu	Gly	Lys	Glu	Asp	Met	Leu	Leu	Lys	Gln	Gly	Gln	Met
			20					25				30			

Tyr	Met	Ala	Asp	Ser	Gln	Cys	Thr	Ser	Pro	Gly	Tyr	Pro	Gly	Pro	Met
		35					40					45			

<210> 4902

4446

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4902

Arg	Lys	His	Lys	Ala	Ile	Arg	Leu	Ile	Ser	Gly	Glu	Leu	His	Thr	Glu
1				5					10					15	

Gly	Glu	Xaa	Lys	Phe	Leu	Ser	Pro	Trp	Ser	Thr	Pro	Ser	Xaa	Xaa	Ser
			20					25					30		

Glu	Arg	Val	Pro	Phe	Met	Ser	Asn	Thr	Ala	Ser	His
		35					40				

<210> 4903

<211> 42

<212> PRT

<213> Homo sapiens

<400> 4903

Ser	Tyr	His	Ser	Val	Ser	Gly	Phe	Leu	Val	Val	Tyr	Thr	Phe	Thr	Ile
1				5				10						15	

Met	Ala	Lys	Cys	Phe	Lys	Ile	Ile	Gln	Leu	Phe	Lys	Glu	Thr	Tyr	Tyr
			20					25					30		

Ala	Lys	Asp	Thr	Leu	Glu	Met	Leu	Cys	Ile
		35					40		

<210> 4904

<211> 103

<212> PRT

4447

<213> Homo sapiens

<400> 4904

```

Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg
 1              5              10              15

Val Arg Ser Val Pro Leu Trp Leu Leu Ser His Leu Lys Asn Asp Pro
          20              25              30

Ser Gly Pro Phe Pro Pro Pro Cys Pro Leu Pro His Thr Ser Arg Phe
          35              40              45

Pro Val Arg Gln Gln Val Gln Arg Leu Gln Asp Leu Ala Leu Leu Ser
          50              55              60

Leu Leu Glu Pro Leu Lys Glu Lys Ala Gly Phe Glu Leu Phe Ala Phe
65              70              75              80

Glu Ser Trp Arg His Lys Arg Tyr Leu Gly Tyr Arg Ser Arg Arg Arg
          85              90              95

Glu Arg Thr Pro Arg Ser Asn
          100

```

<210> 4905

<211> 78

<212> PRT

<213> Homo sapiens

<400> 4905

```

Phe Tyr Phe Ser Ser Lys Ser Leu Phe His Thr Cys Lys Ile Leu Gly
 1              5              10              15

Arg Arg Phe Leu Lys Leu Cys Gln Glu Leu Leu Pro Ile Ser Lys Asn
          20              25              30

Ser Leu Leu Cys Ser Lys Thr Thr Ile Ser Leu Arg Asp Cys Leu Lys
          35              40              45

Gly Glu Arg Ala Thr Arg Glu Ile Ile His Ser Ala His Arg Asn Tyr
          50              55              60

Cys Ser Ser Gly Leu Pro Ala Thr Val Phe Arg Cys Trp Val
65              70              75

```

<210> 4906

<211> 219

4448

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4906

Lys Val Asp Lys Gln Leu Phe Pro Pro Ser Tyr Gln Glu Lys Cys Ser
1 5 10 15

Gly Ser Tyr Ala Thr Pro Ser Ser Glu Asn Val Gln Leu Arg Gln Asn
20 25 30

Leu Gly Thr Lys Lys Asn Leu Xaa His Val Asn Lys Ile Leu Lys Ala
35 40 45

Lys Lys Leu Gln Arg Gln Ala Arg Thr Gly Asn Asn Phe Val Lys Arg
50 55 60

Arg	Pro	Gly	Arg	Pro	Arg	Lys	Cys	Pro	Leu	Gln	Ala	Val	Val	Ser	Met
65					70					75					80

Gln Ala Phe Gln Ala Ala Gln Phe Val Asn Pro Glu Leu Asn Arg Asp
85 90 95

Glu Glu Gly Ala Ala Leu His Leu Ser Pro Asp Thr Val Thr Asp Val
100 105 110

Ile Glu Ala Val Val Gln Ser Val Asn Leu Asn Pro Glu His Lys Lys
115 120 125

Gly Leu Lys Arg Lys Gly Trp Leu Leu Glu Glu Gln Thr Arg Lys Lys
130 135 140

Gln Lys Pro Leu Pro Glu Glu Glu Glu Gln Glu Asn Asn Lys Ser Phe
145 150 155 160

Asn Glu Ala Pro Val Glu Ile Pro Ser Pro Ser Glu Thr Pro Ala Lys
165 170 175

Pro Ser Glu Pro Glu Ser Thr Leu Gln Pro Val Leu Ser Leu Ile Pro
180 185 190

Arg Glu Lys Lys Pro Pro Arg Pro Pro Lys Lys Lys Tyr Gln Lys Ala
195 200 205

Gly Leu Tyr Ser Asp Val Tyr Lys Thr Thr Glu
210 215

4449

<210> 4907

<211> 102

<212> PRT

<213> Homo sapiens

<400> 4907

```

Ser His Cys Thr Val Asn Ser Lys Lys Ile Glu Glu Leu Phe Trp His
 1              5              10              15

Leu Lys Thr Ile Thr Gln Phe Ser Arg Glu Val Thr Asp Lys Arg Asp
              20              25              30

His Thr Asp Cys Phe Val Val Leu Val Leu Ser Tyr Ser Leu Met Gln
              35              40              45

Ile Arg Thr Phe Thr Ser Ile Cys Val Gly Pro Thr Leu Pro Gly Gln
              50              55              60

Ile Gln Leu Gln Ser Pro Cys Arg Tyr Glu Phe Ser Arg Asn Glu Pro
 65              70              75              80

Met Phe Ser Ala Arg Ile Asn Trp Ser Tyr Thr Ile Tyr Lys Asn Glu
              85              90              95

Tyr Cys Ile Leu Tyr Leu
              100

```

<210> 4908

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4908

```

Gly Xaa Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp
 1              5              10              15

Pro Arg Val Arg Gly Ser Pro Leu Leu Cys Ala Leu Ser Ser Val Met
              20              25              30

Arg Arg Glu Pro Phe Ala Val Cys Ser Val Gln Cys His Glu Thr Gly
              35              40              45

```

4450

Ala Leu Cys Cys Val Leu Cys Pro Val Ser
 50 55

<210> 4909
 <211> 200
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (148)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (177)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (183)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (195)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4909
 Ala Arg Pro Ser Leu Arg Thr Cys Tyr Pro Arg Gly Asn Ile Thr Met
 1 5 10 15

Ser Glu Ala Pro Arg Ala Glu Thr Phe Val Phe Leu Asp Leu Glu Ala
 20 25 30

Thr Gly Leu Pro Ser Val Glu Pro Glu Ile Ala Glu Leu Ser Leu Phe
 35 40 45

Ala Val His Arg Ser Ser Leu Glu Asn Pro Glu His Asp Glu Ser Gly

4451

50	55	60
Ala Leu Xaa Leu Pro Arg Val Leu Asp Lys Leu Thr Leu Cys Met Cys		
65	70	75 80
Pro Glu Arg Pro Phe Thr Ala Lys Ala Ser Glu Ile Thr Gly Leu Ser		
	85	90 95
Ser Glu Gly Leu Ala Arg Cys Arg Lys Ala Gly Phe Asp Gly Ala Xaa		
	100	105 110
Val Arg Thr Leu Gln Ala Phe Leu Ser Arg Gln Ala Gly Pro Ile Cys		
	115	120 125
Leu Val Ala His Asn Gly Phe Asp Tyr Asp Phe Pro Leu Leu Cys Ala		
	130	135 140
Glu Leu Arg Xaa Leu Gly Ala Arg Leu Pro Arg Asp Thr Val Cys Leu		
	145	150 155 160
Asp Thr Leu Pro Ala Leu Arg Gly Leu Asp Arg Ala His Lys Pro Arg		
	165	170 175
Xaa Pro Gly Pro Gly Pro Xaa Arg Val Thr Ser Leu Gly Lys Leu Phe		
	180	185 190
Pro Pro Xaa Leu Ser Gly Lys Thr		
	195	200

<210> 4910

<211> 66

<212> PRT

<213> Homo sapiens

<400> 4910

Pro Arg Val Ser Leu Pro Phe Arg Glu Arg Ala Glu Val Leu Thr Leu
1 5 10 15
Val Ala Cys Cys His Leu Ser Leu Ala Ser Ala Leu Val His Pro His
20 25 30
Ser Thr Leu Arg Ser His Ser His His Gln Arg Leu Asn Pro Lys Ala
35 40 45
Leu Gln Asp Leu Lys Val Pro Ser Glu Ala Ser Glu Ile Lys Tyr Cys
50 55 60
Ser Asn
65

4452

<210> 4911

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4911

Lys	Gln	Lys	His	Ile	Tyr	Phe	Lys	Lys	Tyr	Thr	Ser	Xaa	Tyr	Glu	Ile
1				5					10					15	

Phe	Ser	Phe	Glu	Cys	Met	Leu	Lys	Trp	Xaa	Xaa	Ser	Arg	Ile	Ser	Tyr
			20					25					30		

Asn	Thr	Gly	Tyr	Leu	Glu	Thr	Arg	Tyr
		35					40	

<210> 4912

<211> 255

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4912

Arg	Glu	Lys	Ser	Thr	Phe	Glu	Cys	Ser	Glu	Cys	Gly	Lys	Ala	Phe	Ser
1				5					10					15	

Tyr	Leu	Ser	Asn	Leu	Asn	Gln	His	Gln	Lys	Thr	His	Thr	Gln	Glu	Lys
				20				25					30		

4453

Ala Tyr Glu Cys Lys Glu Cys Gly Lys Ala Phe Ile Arg Ser Ser Ser
 35 40 45
 Leu Ala Lys His Glu Arg Ile His Thr Gly Glu Lys Pro Tyr Gln Cys
 50 55 60
 Xaa Glu Cys Gly Lys Thr Phe Ser Tyr Gly Ser Ser Leu Ile Gln His
 65 70 75 80
 Arg Lys Ile His Thr Gly Glu Arg Pro Tyr Lys Cys Asn Glu Cys Gly
 85 90 95
 Arg Ala Phe Asn Gln Asn Ile His Leu Thr Gln His Lys Arg Ile His
 100 105 110
 Thr Gly Ala Lys Pro Tyr Glu Cys Ala Glu Cys Gly Lys Ala Phe Arg
 115 120 125
 His Cys Ser Ser Leu Ala Gln His Gln Lys Thr His Thr Glu Glu Lys
 130 135 140
 Pro Tyr Gln Cys Asn Lys Cys Glu Lys Thr Phe Ser Gln Ser Ser His
 145 150 155 160
 Leu Thr Gln His Gln Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys
 165 170 175
 Asn Glu Cys Asp Lys Ala Phe Ser Arg Ser Thr His Leu Thr Glu His
 180 185 190
 Gln Asn Thr His Thr Gly Glu Lys Pro Tyr Asn Cys Asn Glu Cys Arg
 195 200 205
 Lys Thr Phe Ser Gln Ser Thr Tyr Leu Ile Gln His Gln Arg Ile His
 210 215 220
 Ser Gly Glu Lys Pro Phe Gly Cys Asn Asp Cys Gly Lys Ser Phe Arg
 225 230 235 240
 Tyr Arg Ser Ala Leu Asn Lys His Gln Arg Leu His Pro Gly Ile
 245 250 255

<210> 4913

<211> 118

<212> PRT

<213> Homo sapiens

<220>

4454

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4913

Leu Leu Glu Ala Gln Ala Gly Glu Gly Gly Arg Val Ser Arg Arg Ala
 1 5 10 15

Pro Leu Ser Leu Thr Gln Arg Ser Cys Val Phe Leu Val Lys Pro Ser
 20 25 30

His Ala Arg Gly Pro Ile Ala Ser Ser Pro Pro Ser Leu Pro Thr Asn
 35 40 45

Ile Pro Ser Pro Asp Pro Asn Ser Pro Pro His Tyr Pro Ala Leu Asp
 50 55 60

Leu Gly Asn Val Phe Leu Tyr Phe Asn Ile Ala Gln Gly Lys Asn Thr
 65 70 75 80

Tyr Ile Leu Arg Asp Leu Gly Trp Gly Lys Gln Lys Pro Cys Gly Val
 85 90 95

Xaa Lys Thr Lys Ala Tyr Phe Tyr Lys Cys Leu Met Phe Ser Pro Pro
 100 105 110

Gly Cys Ser Glu Thr Pro
 115

<210> 4914

<211> 186

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

4455

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4914

Arg	Ile	Ser	Gln	Cys	Leu	Gly	Arg	Gly	Glu	Val	Gln	Glu	Cys	Val	Leu
1				5					10					15	

Arg	Leu	Asn	His	Ile	Ile	Leu	Gln	Arg	Xaa	Trp	Ala	Ala	Arg	His	Ile
			20					25					30		

Val	Asn	Arg	Ile	Asn	Ala	Phe	Lys	Pro	Thr	Ala	Asp	Arg	Pro	Phe	Val
		35					40					45			

Leu	Gly	Leu	Pro	Thr	Gly	Gly	Thr	Pro	Met	Thr	Thr	Tyr	Lys	Ala	Leu
	50					55					60				

Val	Glu	Met	His	Lys	Ala	Gly	Gln	Val	Ser	Phe	Lys	His	Val	Val	Thr
65					70					75					80

Phe	Asn	Met	Asp	Glu	Tyr	Val	Gly	Leu	Pro	Lys	Glu	His	Pro	Glu	Ser
				85					90					95	

Tyr	Tyr	Ser	Phe	Met	His	Arg	Asn	Phe	Phe	Asp	His	Val	Asp	Ile	Pro
			100					105					110		

Ala	Glu	Asn	Ile	Asn	Leu	Leu	Asn	Gly	Asn	Ala	Pro	Asp	Ile	Asp	Ala
		115					120					125			

Glu	Cys	Arg	Gln	Tyr	Glu	Xaa	Lys	Ile	Arg	Ser	Tyr	Gly	Lys	Ile	His
	130					135					140				

Leu	Phe	Met	Gly	Gly	Val	Xaa	Asn	Asp	Gly	His	Ile	Ala	Phe	Asn	Glu
145					150					155					160

Pro	Ala	Ser	Ser	Leu	Ala	Ser	Arg	Thr	Arg	Ile	Lys	Thr	Leu	Thr	His
				165					170					175	

Xaa	His	Ser	Arg	Arg	Lys	Leu	Ser	Phe	Leu
			180					185	

<210> 4915

<211> 141

<212> PRT

<213> Homo sapiens

<400> 4915

Gly	Ile	Leu	Phe	Ile	Tyr	Leu	Asp	Gly	Ala	Phe	Asp	Leu	Cys	Val	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4456

```

1           5           10           15
Ser Val Ser Lys Gly Gly Phe Glu Arg Glu Glu Thr Ala Thr Phe Ala
      20           25           30
Leu Leu Tyr Arg Leu Arg Asn Ile Leu Phe Glu Arg Asn Arg Arg Val
      35           40           45
Met Asp Val Ile Ser Arg Ser Gln Leu Tyr Leu Asp Asp Leu Phe Ser
      50           55           60
Asp Tyr Tyr Asp Lys Pro Leu Ser Met Thr Asp Ile Ser Leu Lys Glu
      65           70           75           80
Gly Thr His Ile Arg Val Asn Leu Leu Asn His Asn Ile Pro Lys Gly
      85           90           95
Pro Cys Ile Leu Cys Gly Met Gly Asn Phe Lys Arg Glu Thr Val Tyr
      100          105          110
Gly Cys Phe Gln Cys Ser Val Asp Gly Gln Lys Tyr Val Arg Leu His
      115          120          125
Ala Val Pro Cys Phe Asp Ile Trp His Lys Arg Met Lys
      130          135          140

```

<210> 4916
 <211> 50
 <212> PRT
 <213> Homo sapiens

```

<400> 4916
Asn Ser Ala Arg Val Cys Ile Leu Ser Arg Asp Arg Val Ser Pro Cys
  1           5           10           15
Trp Leu Gly Trp Cys Leu Ser Leu Asp Leu Val Ile His Pro Pro Gln
      20           25           30
Pro Pro Arg Val Leu Gly Leu Gln Val Arg Ala Thr Ala Pro Gly Trp
      35           40           45
Phe Ser
      50

```

<210> 4917
 <211> 212
 <212> PRT

4457

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4917

Glu	Tyr	Cys	Asn	Thr	Val	Gln	Leu	Asp	Ser	Gly	Ile	Asp	Tyr	Arg	Lys
1				5				10						15	

Arg	Glu	Leu	Pro	Ala	Ala	Gly	Lys	Leu	Tyr	Tyr	Leu	Thr	Ser	Glu	Ala
			20					25					30		

Asp	Val	Glu	Ala	Val	Met	Asp	Lys	Leu	Phe	Asp	Glu	Leu	Ala	Gln	Lys
		35					40					45			

Gln	Asn	Asp	Leu	Thr	Arg	Pro	Arg	Ile	Leu	Lys	Val	Gln	Gly	Arg	Glu
	50					55					60				

Leu	Arg	Leu	Asn	Lys	Ala	Cys	Gly	Thr	Val	Ala	Asp	Cys	Thr	Phe	Glu
65					70					75					80

Glu	Leu	Cys	Glu	Arg	Pro	Leu	Gly	Ala	Ser	Asp	Tyr	Leu	Glu	Leu	Xaa
				85					90					95	

Lys	Asn	Phe	Asp	Thr	Ile	Phe	Leu	Arg	Xaa	Ile	Pro	Gln	Phe	Thr	Leu
			100					105					110		

Ala	Asn	Arg	Thr	Gln	Gly	Arg	Arg	Phe	Ile	Thr	Leu	Ile	Asp	Asn	Phe
		115					120					125			

Tyr	Asp	Leu	Lys	Val	Arg	Ile	Ile	Cys	Ser	Ala	Ser	Thr	Pro	Ile	Ser
	130					135					140				

Ser	Leu	Phe	Leu	His	Gln	His	His	Asp	Ser	Glu	Leu	Glu	Gln	Ser	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4458

145 150 155 160
 Ile Leu Met Asp Xaa Leu Gly Leu Xaa Gln Asp Ser Ala Glu Gly Leu
 165 170 175
 Ser Met Phe Thr Gly Glu Glu Glu Ile Phe Ala Phe Gln Arg Thr Ile
 180 185 190
 Ser Arg Leu Thr Glu Met Gln Thr Glu Gln Tyr Trp Asn Glu Gly Asp
 195 200 205
 Arg Thr Lys Lys
 210

<210> 4918

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4918

Met Gln Asn Ile Glu Arg Ile Phe Met Ile Leu Pro Asn Cys Lys His
 1 5 10 15
 Ser Ser Gln Ser Leu Ile Ala Leu Glu Cys Phe Leu Asp Glu Gln Val
 20 25 30
 Thr Ser Cys Lys Pro Thr Ser Glu Val Arg Lys Met Phe Ser His Val
 35 40 45
 Ser Cys Ser Cys Gln Ile Phe Lys Asn Pro Pro Ser Phe Asn His Pro
 50 55 60
 Val Gly Lys Met Cys Tyr Lys Thr Leu Pro Pro Gly Val Phe Trp Glu
 65 70 75 80
 Glu Cys Leu Lys Lys Lys Lys Lys Thr Ala Xaa Arg Lys Tyr Phe Gln
 85 90 95
 Ile Leu Tyr

<210> 4919

4459

<211> 224

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (224)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4919

Tyr	Leu	Asp	Ala	Glu	Lys	Met	Gly	Gln	Lys	Ala	Ser	Gln	Gln	Leu	Ala
1				5					10					15	

Leu	Lys	Asp	Ser	Lys	Glu	Val	Pro	Val	Val	Cys	Glu	Val	Val	Ser	Glu
			20					25					30		

Ala	Ile	Val	His	Ala	Ala	Gln	Lys	Leu	Lys	Glu	Tyr	Leu	Gly	Phe	Glu
		35					40						45		

Tyr	Pro	Pro	Ser	Lys	Leu	Cys	Pro	Ala	Ala	Asn	Thr	Leu	Asn	Glu	Ile
	50					55					60				

Phe	Leu	Ile	His	Phe	Ile	Thr	Phe	Cys	Gln	Glu	Lys	Gly	Val	Asp	Glu
65					70					75					80

Trp	Leu	Thr	Thr	Thr	Lys	Met	Thr	Lys	His	Gln	Ala	Phe	Leu	Phe	Gly
				85					90					95	

Ala	Asp	Trp	Ile	Trp	Thr	Phe	Trp	Gly	Ser	Asp	Lys	Gln	Ile	Lys	Leu
			100					105					110		

Gln	Leu	Ala	Val	Gln	Thr	Leu	Gln	Met	Ser	Ser	Pro	Pro	Pro	Val	Glu
		115					120					125			

Ser	Lys	Pro	Cys	Asp	Leu	Ser	Asn	Pro	Glu	Ser	Xaa	Val	Xaa	Glu	Ser
							135				140				

4460

Ser Trp Lys Lys Ser Arg Phe Asp Lys Leu Glu Glu Phe Cys Asn Leu
 145 150 155 160

Ile Gly Glu Asp Cys Leu Gly Leu Phe Ile Ile Phe Gly Met Pro Gly
 165 170 175

Lys Pro Lys Asp Ile Arg Gly Val Val Leu Asp Ser Val Lys Ser Gln
 180 185 190

Met Val Arg Ser His Leu Pro Gly Gly Lys Ala Val Ala Xaa Phe Val
 195 200 205

Leu Glu Thr Glu Asp Cys Val Phe Ile Lys Glu Leu Leu Lys Ile Xaa
 210 215 220

<210> 4920

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4920

Thr Trp Lys Leu Phe Tyr Gln Ile Thr Val Leu His His Pro Pro Val
 1 5 10 15

Cys Leu Val Ser Leu Ile Asn Gly Arg Gly Ile Ser Lys Leu Ser Phe
 20 25 30

Leu Thr Pro Phe Glu Tyr Ser Val Phe Ala Ile Ile Asp Val Ala Pro
 35 40 45

His Asn Ser Pro Thr Phe Ile Leu Lys Asn Gln Asn Leu Lys Asn Cys
 50 55 60

Ser Ser Cys Gln Ser Val Met Thr His Leu Arg Xaa Ile Leu Phe Leu
 65 70 75 80

Asp Val

4461

<210> 4921

<211> 41

<212> PRT

<213> Homo sapiens

<400> 4921

Lys	Ser	Ser	Leu	Cys	Cys	Ser	His	Phe	Asn	Ser	Cys	His	Met	Phe	Cys
1				5					10					15	

Lys	Gln	Phe	Phe	Glu	Phe	Ile	Ile	Phe	Gln	Ser	Cys	Leu	Tyr	Tyr	Ile
			20					25					30		

Leu	Pro	His	Lys	Asn	Phe	Lys	Phe	Val
		35				40		

<210> 4922

<211> 58

<212> PRT

<213> Homo sapiens

<400> 4922

Glu	Tyr	Phe	Gln	Asn	Pro	Ser	Leu	Ser	Lys	Leu	Phe	Cys	Gly	Lys	Ser
1				5					10					15	

Ser	Ile	Tyr	Phe	Ile	Asn	Val	Met	Cys	Leu	Ile	Leu	Asp	Leu	Phe	Trp
			20					25					30		

Glu	Lys	Leu	Phe	Lys	Leu	Gly	Pro	Phe	Lys	Leu	Ile	Leu	Ser	Ser	Leu
		35					40					45			

Glu	Gly	Arg	Ser	Tyr	Leu	Ala	Asn	Glu	Ser
	50					55			

<210> 4923

<211> 93

<212> PRT

<213> Homo sapiens

<400> 4923

Phe	Phe	Glu	Gln	Ala	Met	Val	Asp	Ser	Gly	Ser	Tyr	Arg	Asn	Ser	Ile
1				5					10					15	

Asp	His	Thr	Val	Val	Leu	Arg	Glu	Lys	Leu	Pro	Ile	Arg	Ser	Asn	Ile
			20					25					30		

Phe	Pro	Leu	Met	Leu	Glu	Thr	Val	Asp	Gly	His	Pro	Leu	Ile	Asn	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4462

35	40	45
Pro Ile Thr Lys Glu Thr Ser	Pro Val Gln Val Gln Ile Gly Asn His	
50	55	60
Val Glu Glu Leu Gln Phe Asp Ile Ile His Ala Pro Arg Tyr Pro Leu		
65	70	75 80
Ile Ile Gly Ile His Trp Leu Glu Thr His Asp Gln Thr		
85	90	

<210> 4924
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 4924
Lys Ala Asp Thr Gly Ala Ile Lys Asn Pro Gly Asp Gly Gly Cys Ser
1 5 10 15
Glu Leu Arg Ser Arg His Cys Pro Pro Ala Trp Ala Thr Arg Val Lys
20 25 30
Leu Cys Leu Lys Lys Gln Thr Asn Lys Cys Ile
35 40

<210> 4925
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 4925
Trp His Pro Leu Ser Glu Ser Gln Ser Ser Leu Arg His Cys Tyr Lys
1 5 10 15
Arg Thr Leu Arg Lys Ile Trp Pro Tyr Glu Pro Ser Gln Pro Gln Ala
20 25 30
Lys Arg Met Thr Met Cys Val Ser Ala Ala His Gly Gln Phe Val Ser
35 40 45
His Cys Phe Gly Lys Pro Cys Val Pro Asn Gln Gly Arg Val Phe Gln
50 55 60
Gly Lys Val Asn Phe Pro Lys Phe Ile Lys Ile Glu Leu Gly Lys Pro
65 70 75 80

4463

Ser Ile Leu Asn Leu Phe Gln Ser Ser Gly His His Ser Tyr Phe Phe
 85 90 95

Cys His Val Lys Glu Lys Phe Gln Ala Cys Ile Leu Ser Cys
 100 105 110

<210> 4926

<211> 92

<212> PRT

<213> Homo sapiens

<400> 4926

Ser Pro Leu Arg Lys Ser Ser Gly Met Phe Ser Ile Ala Val Ser Phe
 1 5 10 15

Pro Pro Lys Ile Thr Trp Leu Gly Ser Tyr Trp Ser Ser Gly Asn Leu
 20 25 30

Ile Pro His Arg Asn Trp Arg Lys Gly Asn Ala Ser Arg Glu Glu Gln
 35 40 45

Leu Tyr Phe Cys Leu Ser Asn Lys Pro Thr Asn Arg Phe Trp Tyr Glu
 50 55 60

Leu Trp Arg His Lys Glu Asn Glu Cys Met Tyr Ser Lys Cys Thr Ser
 65 70 75 80

Phe Phe Thr Leu Ser Trp Gln Lys Met Gln His Phe
 85 90

<210> 4927

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4927

Xaa Leu Glu His Ile Pro Asn Phe Ser Leu Asp Asp Met Val Lys Leu

4464

1	5	10	15
Val Glu Val Pro Asn Asp Gly Gly Pro Leu Gly Ile His Val Val Pro	20	25	30
Phe Ser Ala Arg Gly Gly Arg Thr Leu Gly Leu Leu Val Lys Arg Leu	35	40	45
Glu Lys Gly Gly Lys Ala Glu His Glu Asn Leu Phe Arg Glu Asn Xaa	50	55	60
Cys Ile Val Arg Ile Asn Asp Gly Asp Leu Arg Asn Arg Arg Phe Glu	65	70	75
Gln Ala Gln His Met Phe Arg Gln Ala Met Arg Thr Pro Ile Ile Trp	85	90	95
Phe His Val Val Pro Ala Ala Asn Lys Glu Gln Tyr Glu Gln Leu Ser	100	105	110
Gln Ser Glu Lys Asn Asn Tyr Tyr Ser Ser Arg Phe Ser Pro Asp Ser	115	120	125
Gln Tyr Ile Asp Asn Arg Ser Val Asn Ser Ala Gly Leu His Thr Val	130	135	140
Gln Arg Ala Pro Arg Leu Asn His Pro Pro Glu Gln Ile Asp Ser His	145	150	155
Ser Arg Leu Pro His Ser Ala His Pro Ser Gly Lys Pro Pro Ser Ala	165	170	175
Pro Ala Ser Ala Pro Gln Asn Val Phe Ser Thr Thr Val Ser Ser Gly	180	185	190
Tyr Asn Thr Lys Lys Ile Gly Lys Arg Leu Asn Ile Gln Leu Lys Lys	195	200	205
Gly Thr Glu Gly Leu Gly Phe Ser Ile Thr Ser Arg Asp Val Thr Ile	210	215	220
Gly Gly Ser Ala Pro Ile Tyr Val Lys Asn Ile Leu Pro Arg Gly Ala	225	230	235
Ala Ile Gln Asp Gly Arg Leu Lys Ala Gly Asp Arg Leu Ile Glu Val	245	250	255
Asn Gly Val Gly Leu Val Gly Lys Ser Gln Glu Glu Val Val Ser Leu	260	265	270
Leu			

4465

<210> 4928

<211> 160

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4928

Asp	Arg	Xaa	Met	Lys	Glu	Glu	Val	Lys	Gly	Ile	Pro	Val	Arg	Val	Ala
1				5					10					15	

Leu	Arg	Cys	Arg	Pro	Leu	Val	Pro	Lys	Glu	Ile	Ser	Glu	Gly	Cys	Gln
			20					25					30		

Met	Cys	Leu	Ser	Phe	Val	Pro	Gly	Glu	Pro	Gln	Val	Val	Val	Gly	Thr
			35				40					45			

Asp	Lys	Ser	Phe	Thr	Tyr	Asp	Phe	Val	Phe	Asp	Pro	Ser	Thr	Glu	Gln
	50					55					60				

Glu	Glu	Val	Phe	Asn	Thr	Ala	Val	Ala	Pro	Leu	Ile	Lys	Gly	Val	Phe
65					70					75					80

Lys	Gly	Tyr	Asn	Ala	Thr	Val	Leu	Ala	Tyr	Gly	Gln	Thr	Gly	Ser	Gly
			85						90					95	

Lys	Thr	Tyr	Ser	Met	Gly	Gly	Ala	Tyr	Thr	Ala	Glu	Gln	Glu	Asn	Glu
			100					105					110		

Pro	Thr	Val	Gly	Val	Ile	Pro	Arg	Val	Ile	Gln	Leu	Leu	Phe	Lys	Glu
			115				120					125			

Ile	Asp	Lys	Lys	Ser	Asp	Phe	Glu	Phe	Thr	Leu	Lys	Val	Ser	Tyr	Leu
	130					135					140				

Glu	Ile	Tyr	Asn	Glu	Glu	Ile	Leu	Asp	Leu	Leu	Cys	Pro	Ser	Arg	Glu
145					150					155					160

<210> 4929

4466

<211> 303

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4929

Pro	Arg	Leu	Leu	Arg	Leu	Pro	Arg	Ser	Val	Val	Val	Met	Asp	Ser	Pro
1				5					10					15	

Trp	Asp	Glu	Leu	Ala	Leu	Ala	Phe	Ser	Arg	Thr	Ser	Met	Phe	Pro	Phe
			20					25					30		

Phe	Asp	Ile	Ala	His	Tyr	Leu	Val	Ser	Val	Met	Ala	Val	Lys	Arg	Gln
		35					40					45			

Pro	Gly	Ala	Ala	Ala	Leu	Ala	Trp	Lys	Asn	Pro	Ile	Ser	Ser	Trp	Phe
	50					55					60				

Thr	Ala	Met	Leu	His	Cys	Phe	Gly	Gly	Gly	Ile	Leu	Ser	Cys	Leu	Leu
65					70					75					80

Leu	Ala	Glu	Pro	Pro	Leu	Lys	Phe	Leu	Ala	Asn	His	Thr	Asn	Ile	Leu
				85					90					95	

Leu	Ala	Ser	Ser	Ile	Trp	Tyr	Ile	Thr	Phe	Phe	Cys	Pro	His	Asp	Leu
		100					105						110		

Val	Ser	Gln	Gly	Tyr	Ser	Tyr	Leu	Pro	Val	Gln	Leu	Leu	Ala	Ser	Gly
		115					120					125			

Met	Lys	Glu	Val	Thr	Arg	Thr	Trp	Lys	Ile	Val	Gly	Gly	Val	Thr	His
	130					135					140				

Ala	Asn	Ser	Tyr	Tyr	Lys	Asn	Gly	Trp	Ile	Val	Met	Ile	Ala	Ile	Gly
145					150					155					160

Trp	Ala	Arg	Gly	Ala	Gly	Gly	Thr	Ile	Ile	Thr	Asn	Phe	Glu	Arg	Leu
			165					170						175	

Val	Lys	Gly	Asp	Trp	Lys	Pro	Glu	Gly	Asp	Glu	Trp	Leu	Lys	Met	Ser
			180					185					190		

4467

Tyr Pro Ala Lys Val Thr Leu Leu Gly Ser Val Ile Phe Thr Phe Gln
 195 200 205
 Xaa Thr Gln Xaa Leu Ala Ile Ser Lys His Asn Leu Met Phe Leu Tyr
 210 215 220
 Thr Ile Phe Ile Val Ala Thr Lys Ile Thr Met Met Thr Thr Gln Thr
 225 230 235 240
 Ser Thr Met Thr Phe Ala Pro Phe Glu Asp Thr Leu Ser Trp Met Leu
 245 250 255
 Phe Gly Trp Gln Gln Pro Phe Ser Ser Cys Glu Lys Lys Ser Glu Ala
 260 265 270
 Lys Ser Pro Ser Asn Gly Val Gly Ser Leu Ala Ser Lys Pro Val Asp
 275 280 285
 Val Ala Ser Asp Asn Val Lys Lys Lys His Thr Lys Lys Asn Glu
 290 295 300

<210> 4930

<211> 82

<212> PRT

<213> Homo sapiens

<400> 4930

Val Met Val Ala Glu Thr Ser Ser Leu Tyr Phe Gly Ala Lys Thr Lys
 1 5 10 15
 Arg Gln His Lys Arg Lys Ser Ile Leu Ile Glu Tyr Phe Val Glu Gln
 20 25 30
 Arg Arg Leu Asp Lys Asn Cys Lys Pro Thr Asp Ser Ala Asn Lys Glu
 35 40 45
 Arg Asn Val Leu Ala Ile Arg His Val Ser Ser Glu Ser Lys Ser Asn
 50 55 60
 Asn Cys Arg Leu Gln Lys Lys Lys Val Phe Lys Asn Phe Ile Lys Thr
 65 70 75 80
 Gly His

<210> 4931

<211> 121

4468

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4931

Glu Gly Leu Arg Asp Gly Arg Leu Ser Arg Ile Pro Phe Leu Ser Thr
 1 5 10 15

Arg Ala Leu Leu Glu Pro Leu Ser Lys Gln Trp Gln Gly Thr Glu Arg
 20 25 30

Ser Gln Gln Glu Ser Gly Arg Gly Leu Ile Ile Thr Lys Lys Thr His
 35 40 45

Tyr Ala Arg Asn Arg Leu Cys Ala Pro Val Pro Asp Thr Trp Gln Lys
 50 55 60

Cys Ser Ser Val Thr His Val Cys Glu Xaa Ile Ala Gly Ser Thr Pro
 65 70 75 80

Ser Ala Trp Pro Ala Gly Ala Ser Ala Ala Asp Pro Met Leu Ser Gly
 85 90 95

Gln Trp Gly Ala Ala Pro Gly Arg Leu Phe Trp Gly Arg Leu Ser Tyr
 100 105 110

Pro Trp Ile Val Tyr Thr Leu Leu Cys
 115 120

<210> 4932

<211> 62

<212> PRT

<213> Homo sapiens

<400> 4932

Asp Lys Ser Glu Asn Val Lys Leu Ile Asn Pro Leu Leu Val Ser Lys
 1 5 10 15

Gln Thr Thr Cys Leu Arg Lys Leu Leu Asn Phe His Val Leu Leu Pro
 20 25 30

Asp Ser Ser Leu Ile Lys Arg Lys Lys Lys Asn Pro Ala Gln Ala Trp
 35 40 45

Trp Leu Thr Pro Trp His Leu Glu Gly Pro Arg Trp Glu Pro

4469

50

55

60

<210> 4933

<211> 282

<212> PRT

<213> Homo sapiens

<400> 4933

Asn Tyr Ser Leu Leu Arg Glu Arg Val Glu Met Val Gly Ile Leu Pro
 1 5 10 15

Leu Cys Cys Ser Gly Cys Val Pro Ser Leu Cys Cys Ser Ser Tyr Val
 20 25 30

Pro Ser Val Ala Pro Thr Ala Ala His Ser Val Arg Val Pro His Ser
 35 40 45

Ala Gly His Cys Gly Gln Arg Val Leu Ala Cys Ser Leu Pro Gln Val
 50 55 60

Phe Leu Lys Pro Trp Ile Phe Val Glu His Phe Ser Ser Trp Leu Ser
 65 70 75 80

Leu Glu Leu Phe Ser Phe Leu Arg Tyr Leu Gly Thr Leu Leu Cys Ala
 85 90 95

Cys Gly His Arg Leu Arg Glu Gly Leu Leu Leu Pro Cys Leu Leu Gly
 100 105 110

Val Gly Ser Trp Leu Leu Phe Asn Asn Trp Thr Gly Gly Ser Trp Phe
 115 120 125

Ser Leu His Leu Gln Gln Val Ser Leu Ser Gln Gly Ser His Val Ala
 130 135 140

Ala Phe Leu Pro Glu Ala Ile Gly Pro Gly Val Pro Val Pro Val Ser
 145 150 155 160

Gly Glu Ser Thr Ser Ala Gln Gln Ser His Ala Gly Trp Gln Leu Ser
 165 170 175

Ala Glu Ala Asp Ala Cys Pro Ser Val Leu Tyr Ser Glu Val Leu Glu
 180 185 190

Trp Asn Lys Asn Ile Asn Thr Tyr Thr Ser Phe His Asp Phe Cys Leu
 195 200 205

Ile Leu Gly Ile Phe Leu Phe Cys Phe Val Leu Ala Val Ile Gly Leu
 210 215 220

4470

Pro Tyr Ile Lys Pro Gly Leu Ser Leu Ser Val Ala Leu Leu Cys Lys
 225 230 235 240

Ala Ser Tyr Tyr Ser Leu Val Trp Phe Ser Arg Thr Val Arg Ser Thr
 245 250 255

Pro Gly Ala Val Cys Phe Leu Arg Leu Pro Gln His Lys Val Pro Tyr
 260 265 270

His Cys Gln Pro Ser Ser Pro Asp Pro Lys
 275 280

<210> 4934

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4934

Cys His Leu Asn Ser Ile His Trp Pro Ser Phe Tyr Asn Arg Arg Asp
 1 5 10 15

Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro
 20 25 30

Pro Phe Ala Ala Gly Val Ile Ala Xaa Lys Pro Ala Pro Ile Ala Leu
 35 40 45

Xaa Asn Ser Cys Xaa Ala
 50

<210> 4935

4471

<211> 292

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (201)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (242)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4935

Ile	Gln	Arg	Leu	Ser	Leu	Val	Arg	Ser	Leu	Cys	Glu	Ser	Glu	Glu	Gln
1				5					10					15	

Arg	Leu	Leu	Glu	Gln	Val	His	Gly	Xaa	Glu	Glu	Arg	Ala	His	Gln	Ser
			20					25					30		

Ile	Leu	Thr	Gln	Arg	Val	His	Trp	Ala	Glu	Ala	Leu	Gln	Lys	Leu	Asp
		35					40					45			

Thr	Ile	Arg	Thr	Gly	Leu	Val	Gly	Met	Leu	Thr	His	Leu	Asp	Asp	Leu
	50					55					60				

Gln	Leu	Ile	Gln	Lys	Glu	Gln	Glu	Ile	Phe	Glu	Arg	Thr	Glu	Glu	Ala
65					70					75					80

Glu	Gly	Ile	Leu	Asp	Pro	Gln	Glu	Ser	Glu	Met	Leu	Asn	Phe	Asn	Glu
				85					90					95	

Lys	Cys	Thr	Arg	Ser	Pro	Leu	Leu	Thr	Gln	Leu	Trp	Ala	Thr	Ala	Val
			100					105					110		

Leu	Gly	Ser	Leu	Ser	Gly	Thr	Glu	Asp	Ile	Arg	Ile	Asp	Glu	Arg	Thr
		115					120					125			

Val	Ser	Pro	Phe	Leu	Gln	Leu	Ser	Asp	Asp	Arg	Lys	Thr	Leu	Thr	Phe
		130				135					140				

Ser	Thr	Lys	Lys	Ser	Lys	Ala	Cys	Ala	Asp	Gly	Pro	Glu	Arg	Phe	Asp
145					150					155					160

His	Trp	Pro	Asn	Ala	Leu	Ala	Ala	Thr	Ser	Phe	Gln	Asn	Gly	Leu	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4472

	165		170		175
Ala Trp Met Val Asn Val Gln Asn Ser Cys Ala Tyr Lys Val Gly Val					
	180		185		190
Ala Ser Gly His Leu Pro Arg Lys Xaa Ser Gly Ser Asp Cys Arg Leu					
	195		200		205
Gly His Asn Ala Phe Ser Trp Val Phe Ser Arg Tyr Asp Gln Glu Phe					
	210		215		220
Arg Phe Ser His Asn Gly Gln His Glu Pro Leu Gly Leu Leu Arg Gly					
	225		230		235
Pro Xaa Gln Leu Gly Val Val Leu Asp Leu Gln Val Gln Glu Leu Leu					
	245		250		255
Phe Tyr Glu Pro Ala Ser Gly Thr Val Leu Cys Ala His His Val Ser					
	260		265		270
Phe Pro Gly Pro Leu Phe Pro Val Phe Ala Val Ala Asp Gln Thr Ile					
	275		280		285
Ser Ile Val Arg					
	290				

<210> 4936

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4936

Asn Ala Tyr Gln Thr Ala Ser His Ala Ser Arg Lys Ile Phe Cys Glu
1 5 10 15

Arg Lys Ser Pro Ile Asp Val Ala Thr Leu Leu Leu Ser Tyr Phe Lys
20 25 30

Lys Leu Leu Gln Xaa Pro Xaa Pro Ser Ala Thr Thr Thr Leu Leu Ser

4473

35

40

45

Gln Gln Pro Ser Arg
50

<210> 4937

<211> 267

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (235)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (245)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (248)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (261)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4937

His Val Arg Glu Thr His Val Ala Gly Glu Val Gly Glu Arg Lys Val
1 5 10 15

Gly Val Asn Thr Leu Trp Gly Ser Phe Glu Ile Ser Asn Val Arg Leu
20 25 30

Ala Arg Val Met Leu Thr Gln Phe Ala Glu Gly Arg Leu Glu Asp Gln
35 40 45

4474

Leu Asp Lys Tyr Asp His Trp Ala Asp Arg Phe Glu Asp Leu Pro Leu
 50 55 60
 Tyr Phe Met Thr Phe His Gly Gln Gln Ser Ile Arg Thr Val Ile Asp
 65 70 75 80
 Thr Met Gln His Ala Val Tyr Val Tyr Asp Ile Cys His Val Ile Ile
 85 90 95
 Asp Asn Leu Gln Phe Met Met Gly His Glu Gln Leu Ser Thr Asp Arg
 100 105 110
 Ile Ala Ala Gln Asp Tyr Ile Ile Gly Val Phe Arg Lys Phe Ala Thr
 115 120 125
 Asp Asn Asn Cys His Val Thr Leu Val Ile His Pro Arg Lys Glu Asp
 130 135 140
 Asp Asp Lys Glu Leu Gln Thr Ala Ser Ile Phe Gly Ser Ala Lys Ala
 145 150 155 160
 Ser Gln Glu Ala Asp Asn Val Leu Ile Leu Gln Asp Arg Lys Leu Val
 165 170 175
 Thr Gly Pro Gly Lys Arg Tyr Leu Gln Val Ser Lys Asn Arg Phe Asp
 180 185 190
 Gly Asp Val Gly Val Phe Pro Leu Glu Phe Asn Lys Asn Ser Leu Thr
 195 200 205
 Phe Ser Ile Pro Pro Lys Asn Lys Ala Arg Leu Lys Lys Ile Lys Asp
 210 215 220
 Asp Thr Gly Pro Val Ala Lys Lys Pro Xaa Xaa Gly Lys Lys Gly Ala
 225 230 235 240
 Thr Thr Gln Asn Xaa Glu Ile Xaa Ser Gly Gln Ala Pro Thr Pro Asp
 245 250 255
 Gln Gln Thr Pro Xaa Ser Xaa Gln Ser Glu Gly
 260 265

<210> 4938

<211> 447

<212> PRT

<213> Homo sapiens

<220>

4475

<221> SITE

<222> (365)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4938

Gly	Arg	Ala	Ser	Gln	Ala	Pro	Ser	Ser	Gly	Leu	Pro	Ala	Gly	Gly	Ala
1				5					10					15	

Asn	Gly	Glu	Ser	Pro	Gly	Gly	Gly	Ala	Pro	Phe	Pro	Gly	Ser	Ser	Gly
			20					25					30		

Ser	Ser	Ala	Leu	Leu	Gln	Ala	Glu	Val	Leu	Asp	Leu	Asp	Glu	Asp	Glu
		35					40					45			

Asp	Asp	Leu	Glu	Val	Phe	Ser	Lys	Asp	Ala	Ser	Leu	Met	Asp	Met	Asn
	50						55				60				

Ser	Phe	Ser	Pro	Met	Met	Pro	Thr	Ser	Pro	Leu	Ser	Met	Ile	Asn	Gln
65					70					75					80

Ile	Lys	Phe	Glu	Asp	Glu	Pro	Asp	Leu	Lys	Asp	Leu	Phe	Ile	Thr	Val
				85					90					95	

Asp	Glu	Pro	Glu	Ser	His	Val	Thr	Thr	Ile	Glu	Thr	Phe	Ile	Thr	Tyr
			100					105						110	

Arg	Ile	Ile	Thr	Lys	Thr	Ser	Arg	Gly	Glu	Phe	Asp	Ser	Ser	Glu	Phe
		115					120					125			

Glu	Val	Arg	Arg	Arg	Tyr	Gln	Asp	Phe	Leu	Trp	Leu	Lys	Gly	Lys	Leu
	130					135					140				

Glu	Glu	Ala	His	Pro	Thr	Leu	Ile	Ile	Pro	Pro	Leu	Pro	Glu	Lys	Phe
145					150					155					160

Ile	Val	Lys	Gly	Met	Val	Glu	Arg	Phe	Asn	Asp	Asp	Phe	Ile	Glu	Thr
				165					170					175	

Arg	Arg	Lys	Ala	Leu	His	Lys	Phe	Leu	Asn	Arg	Ile	Ala	Asp	His	Pro
			180					185					190		

Thr	Leu	Thr	Phe	Asn	Glu	Asp	Phe	Lys	Ile	Phe	Leu	Thr	Ala	Gln	Ala
		195						200					205		

Trp	Glu	Leu	Ser	Ser	His	Lys	Lys	Gln	Gly	Pro	Gly	Leu	Leu	Ser	Arg
	210					215					220				

Met	Gly	Gln	Thr	Val	Arg	Ala	Val	Ala	Ser	Ser	Met	Arg	Gly	Val	Lys
225					230					235					240

Asn	Arg	Pro	Glu	Glu	Phe	Met	Glu	Met	Asn	Asn	Phe	Ile	Glu	Leu	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4476

				245					250					255		
Ser	Gln	Lys	Ile	Asn	Leu	Ile	Asp	Lys	Ile	Ser	Gln	Arg	Ile	Tyr	Lys	
			260					265					270			
Glu	Glu	Arg	Glu	Tyr	Phe	Asp	Glu	Met	Lys	Glu	Tyr	Gly	Pro	Ile	His	
		275				280						285				
Ile	Leu	Trp	Ser	Ala	Ser	Glu	Glu	Asp	Leu	Val	Asp	Thr	Leu	Lys	Asp	
	290					295					300					
Val	Ala	Ser	Cys	Ile	Asp	Arg	Cys	Cys	Lys	Ala	Thr	Glu	Lys	Arg	Met	
305				310						315					320	
Ser	Gly	Leu	Ser	Glu	Ala	Leu	Leu	Pro	Val	Val	His	Glu	Tyr	Val	Leu	
				325				330						335		
Tyr	Ser	Glu	Met	Leu	Met	Gly	Val	Met	Lys	Arg	Arg	Asp	Gln	Ile	Gln	
			340					345					350			
Ala	Glu	Leu	Asp	Ser	Lys	Val	Glu	Val	Leu	Thr	Tyr	Xaa	Lys	Ala	Asp	
		355					360					365				
Thr	Asp	Leu	Leu	Pro	Glu	Glu	Ile	Gly	Lys	Leu	Glu	Asp	Lys	Val	Glu	
	370				375						380					
Cys	Ala	Asn	Asn	Ala	Leu	Lys	Ala	Asp	Trp	Glu	Arg	Trp	Lys	Gln	Asn	
385				390						395					400	
Met	Gln	Asn	Asp	Ile	Lys	Leu	Ala	Phe	Thr	Asp	Met	Ala	Glu	Glu	Asn	
				405					410					415		
Ile	His	Tyr	Tyr	Glu	Gln	Cys	Leu	Ala	Thr	Trp	Glu	Ser	Phe	Leu	Thr	
			420					425					430			
Ser	Gln	Thr	Asn	Leu	His	Leu	Glu	Glu	Ala	Ser	Glu	Asp	Lys	Pro		
		435					440					445				

<210> 4939

$\langle 211 \rangle$ 323

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

 $\langle 222 \rangle \quad (122)$

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

4477

<221> SITE

<222> (219)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4939

Ala	Ala	Ala	Ala	Gln	Gly	Leu	Val	Arg	Ala	Gly	Arg	Arg	Glu	Leu	Met
1				5					10					15	
Ala	Glu	Glu	Glu	Ser	Asp	Gln	Glu	Ala	Glu	Arg	Leu	Gly	Glu	Glu	Leu
			20					25					30		
Val	Ala	Ile	Val	Glu	Ser	Pro	Leu	Gly	Pro	Val	Gly	Leu	Arg	Ala	Ala
		35					40					45			
Gly	Asp	Gly	Arg	Gly	Gly	Ala	Gly	Ser	Gly	Asn	Cys	Gly	Gly	Gly	Val
	50					55					60				
Gly	Ile	Ser	Ser	Arg	Asp	Tyr	Cys	Arg	Arg	Phe	Cys	Gln	Val	Val	Glu
	65				70					75					80
Asp	Tyr	Ala	Gly	Arg	Trp	Gln	Val	Pro	Leu	Pro	Gln	Leu	Gln	Val	Leu
				85					90					95	
Gln	Thr	Ala	Leu	Cys	Cys	Phe	Thr	Thr	Ala	Ser	Ala	Ser	Phe	Pro	Asp
			100					105					110		
Glu	Cys	Glu	His	Val	Gln	Tyr	Val	Leu	Xaa	Ser	Leu	Ala	Val	Ser	Phe
		115					120					125			
Phe	Glu	Leu	Leu	Leu	Phe	Phe	Gly	Arg	Asp	Glu	Phe	Tyr	Glu	Glu	Pro
	130					135					140				
Leu	Lys	Asp	Ile	Leu	Gly	Ser	Phe	Gln	Glu	Cys	Gln	Asn	His	Leu	Arg
145					150					155					160
Arg	Tyr	Gly	Asn	Val	Asn	Leu	Glu	Leu	Val	Thr	Arg	Ile	Ile	Arg	Asp
			165						170					175	
Gly	Gly	Pro	Trp	Glu	Asp	Pro	Val	Leu	Gln	Ala	Val	Leu	Lys	Ala	Gln
			180					185					190		
Pro	Ala	Ser	Gln	Glu	Ile	Val	Asn	Lys	Tyr	Leu	Ser	Ser	Glu	Asn	Pro
		195					200					205			
Leu	Phe	Phe	Glu	Leu	Arg	Ala	Arg	Tyr	Leu	Xaa	Ala	Cys	Glu	Arg	Ile
	210					215					220				

[illegible]

```
<210> 4940
<211> 35
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

4479

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4940

Xaa	Asn	Leu	Leu	Phe	Val	Gly	Phe	Xaa	Lys	Ser	Phe	Ala	Cys	Ile	Xaa
1				5					10					15	

Tyr	Lys	Thr	Thr	Thr	Val	Tyr	Met	Leu	Leu	Pro	Leu	Ala	Asp	Glu	Leu
			20					25					30		

Xaa	Xaa	Lys
		35

<210> 4941

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4941

Met	Asn	Gly	Pro	Val	Leu	Asp	Pro	Asp	Lys	Glu	Glu	Xaa	Thr	Met	Glu
1				5					10					15	

Ala	Leu	Gly	Met	Ile	Glu	Thr	Arg	Gly	Leu	Val	Ala	Leu	Ile	Glu	Ala
			20					25					30		

Ser	Asp	Ala	Met	Val	Lys	Ala	Ala	Arg	Val	Lys	Leu	Val	Gly	Val	Lys
		35					40					45			

Gln	Ile	Gly	Gly	Gly	Leu	Cys	Thr	Ala	Met
	50					55			

<210> 4942

<211> 48

<212> PRT

<213> Homo sapiens

<400> 4942

Pro	Leu	Lys	Cys	Phe	Tyr	Phe	Gly	Asn	Phe	Val	Met	Leu	Ser	Thr	Phe
1				5					10					15	

Val	Ser	Ala	Gln	Phe	Ser	Arg	Leu	Arg	Ile	Asn	Leu	Leu	Phe	Leu	Asn
			20					25					30		

4480

Ser Thr Ala Asp Phe Ser Phe Lys Phe His Arg Leu Ser Thr Tyr Ile
35 40 45

<210> 4943

<211> 80

<212> PRT

<213> Homo sapiens

<400> 4943

Trp Gln Asn Gly Arg Leu Ile Phe Ser Ile Ile Ile Gly Glu His Ile
1 5 10 15

Ile Phe Trp Asn His Ala Ile Leu His Thr Val Lys Pro Leu Ile Phe
20 25 30

Gln Gly Asn Ser Phe Arg Ile Trp Tyr Trp His Ala Val Ser Tyr Leu
35 40 45

Ser Arg Ile Phe Gly Leu Ser Glu Arg Tyr Gln Phe Lys Ile Ser Gly
50 55 60

Ser Val Arg Ile Phe Asp Pro Ser Gln Cys Gln Tyr Leu Met Asn His
65 70 75 80

<210> 4944

<211> 42

<212> PRT

<213> Homo sapiens

<400> 4944

Lys Ser Ser Arg Lys Leu Leu Leu Lys Lys Thr Gly Tyr Leu Asn Ile
1 5 10 15

Glu Ile Tyr Val Cys Cys Glu Phe Lys Glu Pro Val Ile Val Ser Phe
20 25 30

Thr Lys Pro Ser Val Phe Asn Gly Cys Lys
35 40

4481

<210> 4945

<211> 77

<212> PRT

<213> Homo sapiens

<400> 4945

```

Arg Asn Val Asn Leu Cys Cys Phe Leu Cys Thr Ile Ala Ala Val Val
 1              5              10              15

Ser Leu Leu Glu Ile Asn Ile Pro Tyr Tyr Asp Val Tyr Glu Tyr Arg
          20              25              30

Phe Pro Phe Leu Pro Ser Leu Pro Pro Ser Pro Thr Phe Leu Phe Phe
          35              40              45

Phe Ser Leu Ser Ala Ser Leu Phe Leu Leu Pro Ser Ser Leu Pro Leu
          50              55              60

Ser Leu Leu Phe Leu Lys Ser Leu Ile Val Asn Lys Leu
          65              70              75

```

<210> 4946

<211> 112

<212> PRT

<213> Homo sapiens

<400> 4946

```

Asn Ser Phe Cys Tyr Phe His Ile Arg Val Gln Thr Tyr Lys Gly Ala
 1              5              10              15

Cys Ser Leu Lys Val His Asn Tyr Ser Tyr Ser Val Cys Leu Tyr Cys
          20              25              30

Tyr Arg Met Leu Cys Phe Gly Ala Leu Ser Ser Ala Asp Pro Arg Ser
          35              40              45

Ser Val Glu Ile His Cys Leu Gly His Ser Leu Ile Arg Met Leu Ala
          50              55              60

Gly Asp Phe Val Ser Asp Val Ala Ser Leu Phe Ser Val His Arg Leu
          65              70              75              80

Arg Val Thr Thr Val Ala Cys Arg Val His Pro Val Gly Ala Ala Gln
          85              90              95

Leu Ser Glu Ser Lys Asn Leu Pro Thr Tyr Ser Asn Val Phe Ala Leu
          100              105              110

```

4482

<210> 4947

<211> 67

<212> PRT

<213> Homo sapiens

<400> 4947

Leu Ala Ser Glu Ser Val Val Gln Leu Val Cys Thr Gly Leu Lys Ala
 1 5 10 15

Gly Glu Trp Val Ile His His His Lys Gly Cys Pro Phe Phe Ala Val
 20 25 30

Thr Ala Asp Ala Cys Gly Arg Arg Ala Gln Gly Ser His Tyr His Phe
 35 40 45

Ser Leu Leu Thr Pro Arg Lys Leu Ser Thr Phe Leu Asp Thr Leu Phe
 50 55 60

Lys Val Leu
 65

<210> 4948

<211> 277

<212> PRT

<213> Homo sapiens

<400> 4948

Val Ile Leu Asp Gly Leu Leu Thr Trp Gly Gln Phe Lys Gln His Tyr
 1 5 10 15

Asn Arg His Phe Gly Phe Leu Gly Asp Phe Ile Gly Gln Val Gln Ser
 20 25 30

Arg Lys Cys Ile Glu Asp Val Ile His Phe Ala Trp Glu Glu Lys Leu
 35 40 45

Phe Leu Leu Ala Asp Glu Val Tyr Gln Asp Asn Val Tyr Ser Pro Asp
 50 55 60

Cys Arg Phe His Ser Phe Lys Lys Val Leu Tyr Glu Met Gly Pro Glu
 65 70 75 80

Tyr Ser Ser Asn Val Glu Leu Ala Ser Phe His Ser Thr Ser Lys Gly
 85 90 95

4483

Tyr Met Gly Glu Cys Gly Tyr Arg Gly Gly Tyr Met Glu Val Ile Asn
 100 105 110
 Leu His Pro Glu Ile Lys Gly Gln Leu Val Lys Leu Leu Ser Val Arg
 115 120 125
 Leu Cys Pro Pro Val Ser Gly Gln Ala Ala Met Asp Ile Val Val Asn
 130 135 140
 Pro Pro Val Ala Gly Glu Glu Ser Phe Glu Gln Phe Ser Arg Glu Lys
 145 150 155 160
 Glu Ser Val Leu Gly Asn Leu Ala Lys Lys Ala Lys Leu Thr Glu Asp
 165 170 175
 Leu Phe Asn Gln Val Pro Gly Ile His Cys Asn Pro Leu Gln Gly Ala
 180 185 190
 Met Tyr Ala Phe Pro Arg Ile Phe Ile Pro Ala Lys Ala Val Glu Ala
 195 200 205
 Ala Gln Ala His Gln Met Ala Pro Asp Met Phe Tyr Cys Met Lys Leu
 210 215 220
 Leu Glu Glu Thr Gly Ile Cys Val Val Pro Gly Ser Gly Phe Gly Gln
 225 230 235 240
 Arg Glu Gly Thr Tyr His Phe Arg Met Thr Ile Leu Pro Pro Val Glu
 245 250 255
 Lys Leu Lys Thr Val Leu Gln Lys Val Lys Asp Phe His Ile Asn Phe
 260 265 270
 Leu Glu Lys Tyr Ala
 275

<210> 4949

<211> 73

<212> PRT

<213> Homo sapiens

<400> 4949

Glu Asn Pro Ser Phe Thr Arg Arg Pro Asp Ser Phe Tyr Thr Ser Phe
 1 5 10 15
 Ile Met Leu Asp Cys Asn Lys Phe Gln Ile Leu Glu Trp Ala Tyr Leu
 20 25 30

4485

<210> 4952

<211> 30

<212> PRT

<213> Homo sapiens

<400> 4952

Ile	Phe	Ser	Ile	Phe	Thr	Val	Leu	Val	Tyr	Phe	Phe	Pro	Val	Thr	Val
1				5					10					15	

Cys	Met	Asn	Thr	Asn	Val	Val	Phe	Asn	Pro	Pro	Phe	Gln	Phe
			20					25					30

<210> 4953

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4953

Gly	Ala	Leu	Asp	Cys	Gly	Ser	Pro	Ala	Ser	Ser	Thr	Pro	Tyr	Phe	Thr
1				5					10					15	

Gly	Leu	Glu	Leu	Pro	Gly	Asp	Xaa	Lys	Leu	Asp	Ala	Pro	Tyr	Asn	Phe
			20					25						30	

Asn	His	Pro	Phe	Ser	Ile	Asn	Asn	Leu	Met	Xaa	Glu	Gln	Thr	Pro	Ala
		35						40					45		

Pro	Pro	Lys	Leu	Asp	Val	Gly	Phe	Xaa	Gly	Tyr	Gly	Ala	Glu	Gly	Gly
		50				55					60				

Glu	Pro	Gly	Val	Tyr	Tyr	Gln	Gly	Leu	Tyr	Ser	Arg	Ser	Leu	Leu	Asn
65						70				75					80

Ala Ser

4486

<210> 4954

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4954

Asp	Thr	Thr	His	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser
1				5					10					15	

Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Asp	Cys	Phe	Val	Phe	Ser	Arg
			20					25					30		

Val	Leu	Tyr	Lys	Trp	Asn	Tyr	Ile	Val	Cys	Thr	Phe	Leu	Tyr	Ser	Leu
		35					40					45			

Ala	Ser	Phe	Thr	Gln	Ile	Ile	Ile	Leu	Arg	Phe	Phe	Ser	Val	Val	Ala
	50					55					60				

Cys	Ile	Asn	Asn	Ser	Phe	Ile	Phe	Cys	Ser	Asn	Ile	Pro	Leu	Tyr	Gly
65					70					75					80

Tyr	Thr	Lys	Ile	Tyr	His	Ser	Phe	Ala	Asp	Glu	His	Leu	Gly	Tyr	Leu
				85					90					95	

Gln	Phe	Tyr	Leu	Gln	Xaa	Lys	Leu	Leu	Arg	Ile	Leu	Val	Tyr	Glu	Ser
			100					105					110		

Leu	Tyr	Gly	His	Ile	Xaa	Ser	Phe
		115					120

<210> 4955

<211> 44

<212> PRT

<213> Homo sapiens

4487

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4955
 Phe Ile Asn Gly Lys Pro Glu Val Lys Lys Asp Leu Leu Glu Ala Gln
 1 5 10 15
 Thr Asn Ile Ala Phe Leu Gln Ser Glu Leu Asp Ala Leu Lys Ser Xaa
 20 25 30
 Tyr Ala Asp Xaa Ser Leu Xaa Thr Glu Xaa Asp Leu
 35 40

<210> 4956
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 4956
 Asp Ser Gly Ala Ala Phe Ser Phe Gly Gly Leu Ala Phe Ile Val Glu
 1 5 10 15
 Asn Ala Met Gly Ser Phe Gln Asn Gly Tyr Leu Ser Asn Leu Ser Ile
 20 25 30
 Phe Gln Asn Ser Tyr Phe Phe Pro Ala His Gly Gln Thr Arg Glu Phe
 35 40 45
 Ser Ser Val Leu Arg His Glu Asn Leu Val Gly His Leu Lys Val Lys
 50 55 60
 Ser Val Asn Val

4488

65

<210> 4957

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4957

Pro	Pro	Ala	Ala	Ala	Ser	His	Leu	Gly	Asn	Ile	Glu	Asn	Gln	Gly	Asn
1				5					10					15	

Gly	Leu	Lys	Ala	Gly	Arg	Ser	Val	Cys	Gln	Gln	Gly	Pro	Asn	Tyr	Val
			20					25					30		

Arg	Trp	Thr	Arg	Gly	Thr	His	Leu	Gln	Gly	Gly	Lys	Ser	Arg	Gly	Arg
		35					40					45			

Thr	Ser	Gly	Asp	Trp	Pro	Lys	Val	Leu	Pro	Cys	Leu	Gln	Asp	Glu	Thr
	50					55					60				

Arg	Leu	Leu	Ser	Pro	Ala	Phe	Xaa	Ala	Pro	Ala	Thr	Arg	Leu	Leu	Leu
65					70					75					80

Thr	Asp	Pro	Ser	Leu	Pro	Leu	Ser	Ala	Ser	Ile	Gln	Val	Ala	Val	Pro
				85					90					95	

Ala	Leu	Cys	Xaa	Ala	Leu	Ser	Cys	Leu	Cys	Ile	Leu	His	Lys	Leu
			100					105					110	

<210> 4958

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

4489

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4958

Pro	Gln	Arg	Xaa	Val	Lys	Ser	Phe	Cys	His	Tyr	Leu	His	Lys	Cys	Val
1				5					10					15	

Lys	His	Arg	Phe	Gln	Gln	Ser	Ala	Trp	His	Ile	Xaa	Gly	Cys	Ser	Met
			20					25					30		

Val	Xaa	Phe	Ile	Ile	Ile	Thr	Gln	Ile	Pro	Gln	Trp	Gln	Glu	Thr	Ser
		35					40					45			

Phe	Tyr	Ile	Met	Glu	Asn	Ile	Tyr	Ile	Lys	Ser	His	Leu	Leu
	50					55					60		

<210> 4959

<211> 44

<212> PRT

<213> Homo sapiens

<400> 4959

Ala	Ile	His	Ser	Leu	Gln	Gln	Phe	Asp	Lys	Ile	Tyr	Phe	Cys	Glu	Gln
1				5					10					15	

Lys	Leu	Arg	His	Leu	His	Phe	Leu	Pro	Met	Trp	Ser	Leu	Gln	Thr	Trp
			20					25					30		

Glu	Thr	Ile	His	Glu	Tyr	Leu	Tyr	Cys	Met	Val	Ile
		35				40					

<210> 4960

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4490

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4960

His	Ile	Phe	Xaa	Phe	Phe	Phe	Phe	Cys	Tyr	Thr	Lys	Ser	Arg	Phe	Leu
1				5					10					15	

Leu	Asn	Leu	Cys	Asn	Asn	Tyr	Ile	Thr	Ile	Gln	Tyr	Lys	Tyr	Cys	Thr
			20					25					30		

Ser	Ser	Ile	Lys	Ile	Cys	Ser	Leu	Tyr	Asp	Arg	Ile	His	Leu	Lys	Thr
			35				40					45			

Leu	Val	Ile	Leu	Pro	Arg	Leu
	50				55	

<210> 4961

<211> 70

<212> PRT

<213> Homo sapiens

<400> 4961

Ser	Asn	Gln	Gly	Asp	His	Gln	Val	Lys	Leu	Lys	His	Lys	Ile	Ile	Val
1				5					10					15	

Gly	Gly	Phe	Leu	Val	Lys	Asp	Val	Asn	Val	Gly	Phe	Pro	Thr	His	His
			20					25					30		

Gly	Val	Ser	Thr	His	His	Cys	Met	Leu	Gly	Thr	Ala	Val	Ser	Leu	Gly
			35				40					45			

His	Glu	Leu	Lys	Glu	His	Thr	Asn	Phe	Trp	Ser	Val	Pro	Ala	Ala	Ser
	50					55					60				

Arg	Pro	Ser	Phe	Cys	Tyr
	65			70	

<210> 4962

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

4491

<400> 4962

Val	Gln	Pro	Gln	His	Ala	Cys	Thr	Gln	Ala	Leu	Ile	Lys	Thr	Ala	Cys
1				5					10					15	
Cys	Ser	Pro	Leu	Pro	Arg	Val	Val	Cys	Trp	Arg	Ala	Val	Gly	Val	Arg
			20					25					30		
Thr	Asp	Thr	Arg	Thr	Phe	His	Leu	Pro	Gly	Ala	Leu	Ala	Ser	Ser	Ile
			35				40					45			
Ser	Phe	Ser	Thr	Val	Leu	Lys	Gln	Asp	Arg	Xaa	Ser	Glu	Arg	Pro	Val
			50			55					60				
Ile	Cys	Pro	Lys	Cys	Cys	Arg	Arg	Arg	Leu	Asn	Val	Leu	Glu	Ser	Leu
65					70					75					80
Leu	Ser	His	Leu	His	Tyr	Asp	Lys	Ser	Ile	Val	Pro	Asn	Arg		
				85					90						

<210> 4963

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4963

Leu	Ala	His	Ile	Lys	Ile	Val	Glu	Pro	His	Thr	Leu	Asn	Leu	Ala	Asn
1				5					10					15	
Leu	Val	Thr	Ala	Gly	Leu	His	Tyr	Pro	Val	Leu	Phe	Phe	Thr	Arg	Leu
			20					25					30		
Thr	Leu	Pro	Cys	Ser	Trp	Cys	Cys	Val	Asp	Leu	Cys	Xaa	Lys	His	Asn
			35				40					45			
Arg	Asn	Ile													

<210> 4964

<211> 41

<212> PRT

<213> Homo sapiens

4492

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4964

Trp	Ser	Val	Gln	Pro	His	Ser	Asp	Ile	Thr	Met	Arg	Ser	Trp	Ile	Ser
1				5					10					15	

Ile	Pro	Trp	Gly	Gly	Pro	Val	Arg	His	Leu	Leu	His	Pro	Trp	Asn	Trp
			20				25						30		

Ile	Ile	Leu	Glu	Xaa	Lys	Pro	Gly	Thr
		35					40	

<210> 4965

<211> 51

<212> PRT

<213> Homo sapiens

<400> 4965

Gly	Arg	Arg	Gln	Ser	Ser	Gly	Ser	Ser	Ser	Pro	Ala	Ala	Tyr	Gly	Thr
1				5					10					15	

Leu	Pro	Cys	Leu	Asp	Pro	Ser	Ile	Arg	Lys	Thr	Tyr	Pro	Ser	Thr	Thr
			20					25					30		

Gly	Lys	Ser	Ala	Asn	Leu	Asn	Pro	Lys	Met	Ala	Met	Ile	Ser	Val	Cys
			35				40					45			

Glu	Thr	Ser
		50

<210> 4966

<211> 160

<212> PRT

<213> Homo sapiens

<400> 4966

Ile	Phe	Leu	Val	Phe	Cys	Lys	Leu	Ser	Val	Ile	Phe	Ser	Ser	Leu	Leu
1				5					10					15	

Arg	Lys	Met	Ala	Thr	Gln	Met	Val	Ala	Ala	Gln	Leu	Ala	Ser	Met	Val
			20					25					30		

Trp	Asn	Asn	Pro	Ser	Gln	Gln	Gln	Phe	Met	Gln	Phe	Gly	Gly	Ser	Ser
			35					40				45			

4493

Gly Ser Gln Leu Pro Gln Ile Gln Thr Asp Val Val Leu Pro Ser Cys
 50 55 60
 Lys Lys Lys Ala Pro Ala Glu Thr Pro Val Lys Glu Arg Leu Phe Ile
 65 70 75 80
 Val Phe Asn Pro His Pro Leu Pro Leu Asp Val Leu Glu Asp Ile Phe
 85 90 95
 Cys Arg Phe Gly Asn Leu Ile Glu Val Tyr Leu Val Ser Gly Lys Asn
 100 105 110
 Val Gly Tyr Ala Lys Tyr Ala Asp Arg Ile Ser Ala Asn Asp Ala Ile
 115 120 125
 Ala Thr Leu His Gly Lys Ile Leu Asn Gly Val Arg Leu Lys Val Met
 130 135 140
 Leu Ala Asp Ser Pro Arg Glu Glu Ser Asn Lys Arg Gln Arg Thr Tyr
 145 150 155 160

<210> 4967

<211> 57

<212> PRT

<213> Homo sapiens

<400> 4967

Lys Ser Glu Thr Pro Ser Gln Glu Lys Lys Lys Lys Lys Val Tyr Ser
 1 5 10 15
 Asn Arg Gln Ile Arg Gly Leu Arg Asp Pro Pro Leu Leu Leu Leu Pro
 20 25 30
 Glu Val Cys Arg Thr Val Tyr Arg Tyr Leu Leu Asp Arg Cys Pro Leu
 35 40 45
 Ser Tyr Phe Ile Cys Thr Val Ile Leu
 50 55

<210> 4968

<211> 68

<212> PRT

<213> Homo sapiens

4494

<400> 4968

```

Met Ser Lys Gly Thr Pro Leu Asn Thr Lys Thr Phe Ser Ser Trp Gln
 1              5              10              15

Thr Tyr Leu Ala Arg Ser Trp Arg Arg Val Arg Phe Gln Thr Met Leu
              20              25              30

Pro Phe Cys Pro Cys Gln Tyr Val Leu Thr Asp Cys Asp Ser Ala Val
      35              40              45

Asn Thr His Thr His Thr Gln Thr His Thr Gln Ala Pro Ser Val Tyr
      50              55              60

Asp Gln Asp Lys
      65

```

<210> 4969

<211> 49

<212> PRT

<213> Homo sapiens

<400> 4969

```

Pro Val Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 1              5              10              15

Lys Lys Ser Pro Gly Val Pro Asn Ser Val Phe Pro Glu Glu Glu Asp
      20              25              30

Leu Ser Tyr Leu Leu Lys Gln Arg Ser Pro Phe Pro Val Val Ser Leu
      35              40              45

Leu

```

<210> 4970

<211> 199

<212> PRT

<213> Homo sapiens

<400> 4970

```

Ala Arg Thr Lys Lys Ile Pro Phe Leu Gly Val Cys Leu Gly Met Gln
 1              5              10              15

Leu Ala Val Ile Glu Phe Ala Arg Asn Cys Leu Asn Leu Lys Asp Ala
      20              25              30

```

4495

Asp Ser Thr Glu Phe Arg Pro Asn Ala Pro Val Pro Leu Val Ile Asp
 35 40 45
 Met Pro Glu His Asn Pro Gly Asn Leu Gly Gly Thr Met Arg Leu Gly
 50 55 60
 Ile Arg Arg Thr Val Phe Lys Thr Glu Asn Ser Ile Leu Arg Lys Leu
 65 70 75 80
 Tyr Gly Asp Val Pro Phe Ile Glu Glu Arg His Arg His Arg Phe Glu
 85 90 95
 Val Asn Pro Asn Leu Ile Lys Gln Phe Glu Gln Asn Asp Leu Ser Phe
 100 105 110
 Val Gly Gln Asp Val Asp Gly Asp Arg Met Glu Ile Ile Glu Leu Ala
 115 120 125
 Asn His Pro Tyr Phe Val Gly Val Gln Phe His Pro Glu Phe Ser Ser
 130 135 140
 Arg Pro Met Lys Pro Ser Pro Pro Tyr Leu Gly Leu Leu Leu Ala Ala
 145 150 155 160
 Thr Gly Asn Leu Asn Ala Tyr Leu Gln Gln Gly Cys Lys Leu Ser Ser
 165 170 175
 Ser Asp Arg Tyr Ser Asp Ala Ser Asp Asp Ser Phe Ser Glu Pro Arg
 180 185 190
 Ile Ala Glu Leu Glu Ile Ser
 195

<210> 4971

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4971

4496

Ala Ser Pro Gly Leu Gly Gly Ala Gln Ser Ser Val Leu His Asn Gly
 1 5 10 15
 Phe Phe His Gly Ser Pro Gly Glu Leu Leu Tyr Thr Gln Lys Ile Gln
 20 25 30
 Pro Leu Pro Ala Leu Ser Pro Phe Ser Leu Leu Leu Pro Phe Pro Met
 35 40 45
 Pro Arg Ser Arg Gln Xaa Leu Thr Phe Arg Thr Ser Ile Ala Xaa Leu
 50 55 60
 Ile Leu Arg Pro Leu Phe Lys Gly Gly
 65 70

<210> 4972
 <211> 301
 <212> PRT
 <213> Homo sapiens

<400> 4972
 Lys Ser Pro Gln Cys His Cys Leu Asp Leu Leu Glu Lys Tyr Gly Gln
 1 5 10 15
 Gly Gly Asn Cys Thr Glu Gly Arg Met Val Phe Ser Tyr His Asn Ser
 20 25 30
 Phe Leu Ile Ala Asp Arg Asn Glu Ala Trp Ile Leu Glu Thr Ala Gly
 35 40 45
 Lys Tyr Trp Ala Ala Glu Lys Val Gln Glu Gly Val Arg Asn Ile Ser
 50 55 60
 Asn Gln Leu Ser Ile Thr Thr Lys Ile Ala Arg Glu His Pro Asp Met
 65 70 75 80
 Arg Asn Tyr Ala Lys Arg Lys Gly Trp Trp Asp Gly Lys Lys Glu Phe
 85 90 95
 Asp Phe Ala Ala Ala Tyr Ser Tyr Leu Asp Thr Ala Lys Met Met Thr
 100 105 110
 Ser Ser Gly Arg Tyr Cys Glu Gly Tyr Lys Leu Leu Asn Lys His Lys
 115 120 125
 Gly Asn Ile Thr Phe Glu Thr Met Met Glu Ile Leu Arg Asp Lys Pro
 130 135 140
 Ser Gly Ile Asn Met Glu Gly Glu Phe Leu Thr Thr Ala Ser Met Val

4497

```

145                150                155                160
Ser Ile Leu Pro Gln Asp Ser Ser Leu Pro Cys Ile His Phe Phe Thr
                165                170                175
Gly Thr Pro Asp Pro Glu Arg Ser Val Phe Lys Pro Phe Ile Phe Val
                180                185                190
Pro His Ile Ser Gln Leu Leu Asp Thr Ser Ser Pro Thr Phe Glu Leu
                195                200                205
Glu Asp Leu Val Lys Lys Lys Ser His Phe Lys Pro Asp Arg Arg His
                210                215                220
Pro Leu Tyr Gln Lys His Gln Gln Ala Leu Glu Val Val Asn Asn Asn
225                230                235                240
Glu Glu Lys Ala Lys Ile Met Leu Asp Asn Met Arg Lys Leu Glu Lys
                245                250                255
Glu Leu Phe Arg Glu Met Glu Ser Ile Leu Gln Asn Lys His Leu Asp
                260                265                270
Val Glu Lys Ile Val Asn Leu Phe Pro Gln Cys Thr Lys Asp Glu Ile
                275                280                285
Gln Ile Tyr Gln Ser Asn Leu Ser Val Lys Val Ser Ser
                290                295                300

```

<210> 4973

<211> 66

<212> PRT

<213> Homo sapiens

<400> 4973

```

Glu Leu Gln Gly Asn Glu Met Leu Gly Asp Leu Gln Ser Phe Leu Gly
  1                5                10                15
Ala Val Arg Ala Val Met Leu Asp Val Lys Ser Val Thr Trp Lys Ala
                20                25                30
Asn Trp Lys Pro Trp Met Lys Val Tyr His Ala Gln Asn Thr Lys Lys
                35                40                45
Asp Lys Ser Arg Arg His Arg Ala Ser Val Gly Phe Pro Glu Glu Glu
                50                55                60
Thr Ala
  65

```

4498

<210> 4974

<211> 68

<212> PRT

<213> Homo sapiens

<400> 4974

Cys Leu Thr Ser Leu Phe Ile Leu Asp Leu Asn Phe Ser Phe Leu Pro
1 5 10 15

Ser Pro Phe Thr Ser Ile Arg Arg Leu His His His Phe Phe Gly Pro
20 25 30

Leu Thr Leu Leu Ser Phe Pro Phe Ser Phe Ser Phe Phe Asn Arg Met
35 40 45

Ser Ser Ile Leu Ser Leu His Ser Pro Pro Asp Ala Val Asp Ser Ala
50 55 60

Met Leu Trp Ile
65

<210> 4975

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4975

Cys Phe Ser Pro Phe Leu Gln Met Phe Val Ser Ser Ser Gly Leu Pro
1 5 10 15

Pro Ser Pro Val Pro Ser Pro Arg Arg Phe Ser Ser Arg Arg Ser Gln

4499

20							25					30				
Ser	Pro	Val	Lys	Cys	Ile	Arg	Pro	Ser	Val	Leu	Gly	Pro	Leu	Lys	Arg	
35			40				45									
Lys	Gly	Glu	Met	Glu	Thr	Glu	Ser	Gln	Pro	Lys	Arg	Leu	Phe	Gln	Gly	
50		55					60									
Thr	Thr	Asn	Met	Leu	Ser	Pro	Asp	Ala	Ala	Gln	Leu	Ser	Asp	Leu	Ser	
65		70				75					80					
Ser	Xaa	Ser	Asp	Ile	Leu	Asp	Gly	Ser	Xaa	Ser	Ser	Ser	Gly	Leu	Ser	
85				90					95							
Ser	Asp	Pro	Leu	Ala	Lys	Gly	Ser	Ala	Thr	Ala	Glu	Ser	Pro	Val	Ala	
100			105					110								
Cys	Ser	Asn	Ser	Cys	Ser	Ser	Phe	Ile	Leu	Met	Xaa	Asp	Leu	Ser	Pro	
115			120				125									

Lys

<210> 4976

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4976

Glu Arg Val Gln Val Asn Ala Asn Asp Val Leu Ala Thr Phe Ser Gln
1 5 10 15

Lys Ile Leu His Trp Asn Thr Asp Cys Asn Ile Lys Leu Leu Cys Val
20 25 30

4500

Tyr Cys Phe Tyr Xaa Cys Ile His Arg Xaa Val Phe Tyr Arg Tyr Ile
35 40 45

Arg Ser Met Ala Leu Xaa
50

```
<210> 4977
<211> 78
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 4977
Val Ile Ala Val Gln Glu Pro Gly Val Pro Ser Arg Asp Pro Cys Leu
1 5 10 15

Glu Ala Gln Glu Arg Pro Ala Ala Ser Met Pro Trp Asp Ala Arg Arg
20 25 30

Pro Gly Gly Gly Ala Asp Gly Gly Pro Glu Ala Ser Gly Ala Ala Arg
35 40 45

Ser Arg Ala Gln Lys Gln Cys Arg Lys Ser Ser Phe Ala Phe Tyr Gln
50 55 60

Ala Val Arg Asp Leu Leu Pro Val Trp Leu Leu Gly Xaa Tyr
65 70 75

```
<210> 4978
<211> 141
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 4978
Arg Glu Gln Pro Ala Gly His Thr Pro Leu Pro Val Pro Ala Xaa Gln
1 5 10 15

4501

Pro Val Asp Tyr Phe Ile Leu Ile Leu Gln Gly Arg Val Glu Val Glu
 20 25 30
 Ile Gly Lys Glu Gly Leu Lys Phe Glu Asn Gly Ala Phe Thr Tyr Tyr
 35 40 45
 Gly Val Ser Ala Leu Thr Val Pro Ser Ser Val His Gln Ser Pro Val
 50 55 60
 Ser Ser Leu Gln Pro Ile Arg His Asp Leu Gln Pro Asp Pro Gly Asp
 65 70 75 80
 Gly Thr His Ser Ser Ala Tyr Cys Pro Asp Tyr Thr Val Arg Arg Ser
 85 90 95
 Leu Ile Cys Ser Ser Ser Arg Leu Arg Asp Cys Ser Thr Ser Met His
 100 105 110
 Ser Trp Leu Pro Glu Pro Arg Thr Cys His Ser Pro Leu Arg Thr Pro
 115 120 125
 Thr Cys Ser Tyr Ser Arg Gln Pro Asp Gln Ala Pro Trp
 130 135 140

<210> 4979

<211> 79

<212> PRT

<213> Homo sapiens

<400> 4979

Lys Asp Leu Asp Asn Gln Thr Ile Ile Val Gly Asn Phe Asn Thr Pro
 1 5 10 15
 Leu Thr Val Leu Asp Arg Ser Leu Arg Gln Lys Thr Asn Lys Glu Met
 20 25 30
 Leu Asp Leu Asn Ser Ala Leu Asn Gln Leu Lys Leu Ile Asp Lys Tyr
 35 40 45
 Arg Thr Leu His Pro Lys Gly Met Leu Ile His Cys Trp Trp Lys Cys
 50 55 60
 Lys Leu Val Gln Ala Leu Arg Lys Ala Val Trp Arg Phe Leu Lys
 65 70 75

<210> 4980

<211> 56

4502

<212> PRT

<213> Homo sapiens

<400> 4980

Asp	Pro	Lys	Cys	Leu	Gly	Pro	Lys	Tyr	Phe	Gly	Phe	Phe	Gln	Ile	Leu
1				5					10					15	

Glu	Tyr	Leu	His	Tyr	Thr	Leu	Met	Ser	Ile	Ser	Phe	Glu	His	His	Val
			20					25					30		

Gly	Val	Leu	Lys	Ala	Ser	Asp	Phe	Gly	Ala	Phe	His	Ile	Leu	Asp	Phe
		35					40					45			

Gln	Ile	Arg	Asp	Ala	Gln	Pro	Val
	50					55	

<210> 4981

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4981

Gly	Xaa	Tyr	Gln	Ala	Asn	Ile	Ala	Glu	Leu	Thr	His	Ala	Asn	Asn	Arg
1				5					10					15	

Val	Asp	Gln	Asn	Glu	Ala	Glu	Val	Lys	Lys	Leu	Arg	Leu	Arg	Val	Glu
			20					25					30		

Glu	Leu	Lys	Gln	Gly	Leu	Asn	Gln	Lys	Glu	Asp	Glu	Leu	Asp	Asp	Ser
		35					40					45			

Leu	Asn	Gln	Ile	Arg	Lys	Leu	Gln	Arg	Ser	Leu	Asp	Glu	Glu	Lys	Glu
	50					55					60				

Arg	Asn	Glu	Asn	Leu	Glu	Thr	Glu	Leu	Arg	His	Leu	Gln	Asn	Trp
65					70					75				

<210> 4982

<211> 104

<212> PRT

<213> Homo sapiens

4503

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4982

Gly	Pro	His	Pro	Gly	Gly	Gly	Pro	Trp	Gly	Gly	Asp	Arg	Glu	Val	Ala
1				5					10					15	

Leu	Lys	Asn	Thr	Ala	Val	Leu	Ile	Leu	His	Ser	Met	Gly	Pro	His	Pro
			20					25					30		

Gly	Gly	Gly	Gly	Gly	Ser	His	Cys	Ile	Cys	Trp	Leu	Arg	Ala	Pro	Ala
		35					40					45			

Cys	Ala	Ser	Arg	Ala	Pro	Gly	Leu	Leu	Cys	Leu	Leu	Ser	Val	Pro	Ile
	50					55					60				

Ser	Ile	Lys	Gly	Leu	Pro	Leu	Gly	Gly	Gln	Lys	Lys	Lys	Lys	Lys	Lys
65					70					75					80

Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
				85					90					95	

Lys	Lys	Lys	Xaa	Gly	Xaa	Pro	Phe
			100				

<210> 4983

<211> 65

<212> PRT

<213> Homo sapiens

<400> 4983

Arg	Lys	Lys	Gln	Ile	Ala	Leu	Asn	Ala	Val	Tyr	Pro	Lys	Thr	Arg	Phe
1				5					10					15	

Pro	Gly	Cys	Pro	Ser	Thr	Leu	Tyr	Arg	Pro	Pro	Phe	Trp	Leu	Leu	Thr
			20					25					30		

Gln	Cys	Ile	Phe	Cys	Tyr	Ile	Lys	Met	Gly	Pro	Arg	Leu	His	Leu	Leu
		35					40					45			

Arg	Asn	Tyr	Lys	Leu	Leu	Gly	Val	Gln	Gly	Cys	Val	Ser	Tyr	Ile	Leu
	50					55					60				

4504

Pro

65

<210> 4984

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4984

Gly	Val	Lys	Glu	Ser	Gly	Val	Thr	Asn	Val	Val	Ala	Gly	Ala	Thr	Leu
1				5					10					15	

Lys	Leu	Cys	Ser	Val	Pro	Trp	Lys	Lys	Glu	Glu	Glu	Glu	Glu	Ala	Lys
			20				25						30		

Leu	Glu	Gly	Lys	Ala	Pro	Gly	Val	Ser	Ser	Trp	Asn	Leu	Arg	Trp	Glu
		35					40					45			

Glu	Thr	Leu	Lys	Val	Ile	Trp	Ser	Ser	Ile	Phe	Gln	Ser	Met	Phe	His
	50					55					60				

Glu	Leu	Val	Phe	Gln	Lys	Trp	Phe	Pro	Gly	Leu	Val	Ser	Gly	Ser	Ser
65					70					75				80	

Met	Arg	Val	Ala	Val	Val	Tyr	Phe	Val	His	Arg	Cys	Ile	Leu	Xaa	Asp
				85					90					95	

<210> 4985

<211> 77

<212> PRT

<213> Homo sapiens

<400> 4985

Ala	Ala	Gly	Ser	Asn	Ala	Ser	Gln	Ala	Glu	His	Ser	Val	Ser	Arg	Asp
1				5					10					15	

Ser	Cys	Val	Glu	Gln	Ile	Arg	Val	His	Ala	Gln	Val	Pro	Arg	Leu	Glu
			20					25					30		

4505

Trp Leu Cys Gln Asn Pro Phe Lys Gly Phe Ser Phe Ser Leu Leu Gly
 35 40 45

Gln Asn Ile Leu Ser His Leu Gly Arg Phe Arg Met Gly Arg Ala Asn
 50 55 60

Leu Asn Lys Arg Phe Phe Leu Tyr Pro Glu Ile Glu Gly
 65 70 75

<210> 4986

<211> 287

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (201)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4986

Leu Leu Ala Pro Thr Arg Arg His Ser Pro Gly Ser Pro Ala Phe Ala
 1 5 10 15

Pro Ser Ser Arg Ala Thr Ala Met Cys Pro Arg Ala Ala Arg Ala Pro
 20 25 30

Ala Thr Leu Leu Leu Ala Leu Gly Ala Val Leu Trp Pro Ala Ala Gly
 35 40 45

Ala Trp Glu Leu Thr Ile Leu His Thr Asn Asp Val His Ser Arg Leu
 50 55 60

Glu Gln Thr Ser Glu Asp Ser Ser Lys Cys Val Asn Ala Ser Arg Cys
 65 70 75 80

Met Gly Gly Val Ala Arg Leu Phe Thr Lys Val Gln Gln Ile Arg Arg
 85 90 95

4506

Ala Glu Pro Asn Val Leu Leu Leu Asp Ala Gly Asp Gln Tyr Gln Gly
 100 105 110
 Thr Ile Trp Phe Thr Val Tyr Lys Gly Ala Glu Val Ala His Phe Met
 115 120 125
 Asn Ala Leu Arg Tyr Asp Ala Met Ala Leu Gly Asn His Glu Phe Asp
 130 135 140
 Asn Gly Val Glu Gly Leu Ile Glu Pro Leu Leu Lys Glu Ala Lys Phe
 145 150 155 160
 Pro Ile Leu Ser Ala Asn Ile Lys Ala Lys Gly Pro Leu Ala Ser Gln
 165 170 175
 Ile Ser Gly Leu Tyr Leu Pro Tyr Lys Val Leu Pro Xaa Gly Asp Glu
 180 185 190
 Xaa Val Gly Ile Val Gly Tyr Thr Xaa Lys Glu Thr Pro Phe Leu Ser
 195 200 205
 Asn Pro Gly Thr Asn Leu Val Phe Glu Asp Glu Ile Thr Ala Leu Gln
 210 215 220
 Pro Glu Val Asp Lys Leu Lys Thr Leu Asn Val Asn Lys Ile Ile Ala
 225 230 235 240
 Leu Gly His Ser Gly Phe Glu Met Asp Lys Leu Ile Ala Gln Lys Val
 245 250 255
 Arg Gly Val Asp Val Val Val Gly Gly His Ser Asn Thr Phe Leu Tyr
 260 265 270
 Thr Gly Asn Cys Phe Lys Arg Ile Ala Trp Ala Arg Met Ser Arg
 275 280 285

<210> 4987

<211> 81

<212> PRT

<213> Homo sapiens

<400> 4987

Tyr Ala Ser Leu Gln Cys Tyr Trp Ser Lys Cys Met Ser Ile Ser Gln
 1 5 10 15

Arg Leu Tyr Pro Cys Ser Leu Thr Leu Gly Asn Leu Lys Ala Leu Ile
 20 25 30

Leu Leu Leu Ser Pro His Lys Glu Val Leu Leu Ser Gly Gly Arg Ala

4507

35 40 45
 Asp Val Gly His Pro Thr Glu Asn Phe Arg Asn His Val Arg Asp Asp
 50 55 60
 Ala Ser His Glu Arg Leu Arg Ala Ser Phe Arg Phe Gly Asn Ile Leu
 65 70 75 80

Lys

<210> 4988

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4988

Leu Ala Ser Ser Arg Gly Gln Arg Thr Asp Ile Leu Pro Thr Phe Gly
 1 5 10 15

Gly Pro Arg Glu Ala Pro Gly Ala Lys Val Leu Ala Leu Val Pro Gly
 20 25 30

Thr Gln Glu Met Pro Ser Pro Val Gly Leu Leu Arg Ala Leu Pro Leu
 35 40 45

Pro Trp Pro Gln Phe Leu Ala Cys Thr Leu Arg Arg Leu Ala Gly Pro
 50 55 60

Arg Xaa Ser Thr Gly Pro Ser Gln Lys Pro Pro Pro Leu Cys Ser Val
 65 70 75 80

Pro Cys Arg Val Pro Ala Asn Asp Gly Gly Gly Gly Pro Gly Lys Pro
 85 90 95

4508

Ser Ser Ala Leu Trp Thr Xaa Ser Ala Cys Tyr Ser Glu Xaa Gly Leu
 100 105 110

Glu Thr Ser Ser Ser Arg Ser
 115

<210> 4989
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 4989
 Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu Leu
 1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Ala Thr Val Pro
 20 25 30

Gly Leu Pro Trp Leu Phe Ser
 35

<210> 4990
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 4990
 Ala Phe Tyr Cys Arg Pro Ser Pro Glu Lys Gly Ala Arg Val Phe Pro
 1 5 10 15

Glu Pro Arg Cys Gln Gly Pro Arg Thr Pro Phe Thr Ala Asp Pro Leu
 20 25 30

Gln Arg Leu Gly Arg Gly Leu Trp Arg Thr Trp Phe Leu Leu Thr Val
 35 40 45

Leu Pro Leu Gly Pro Pro Ser Gln Thr Gln Thr Ile Gln Asp Pro Leu
 50 55 60

Ser Val Arg Pro Asn Gly Asn Ser Glu Ala Val Ile Phe Pro Pro Leu
 65 70 75 80

Pro Leu His Ser Leu Val Phe Cys Pro Leu Leu Cys Ser Ser Leu Pro
 85 90 95

Pro

4509

<210> 4991

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4991

Met	Glu	Lys	Leu	Val	Leu	Asp	His	Asp	Gly	Lys	Gly	Val	Leu	Glu	Leu
1				5					10					15	
Leu	Pro	Phe	Gly	Ile	Thr	Asp	Arg	Thr	Asp	Phe	Leu	Ser	Leu	Ile	Arg
			20					25					30		
Asn	Ile	Tyr	Asn	Leu	Phe	Ser	Lys	Ser	Ala	Thr	Arg	Arg	Leu	His	Leu
		35					40					45			
His	Asp	Lys	Thr	Leu	Val	Ser	Thr	Thr	Pro	Tyr	Leu	Asn	Pro	Asp	Ser
	50					55					60				
Pro	Lys	Phe	Leu	Asp	Asn	Asn	Leu	Thr	Xaa	Ser	Ile	His	Ala	Asn	Gln
65					70					75					80

<210> 4992

<211> 137

<212> PRT

<213> Homo sapiens

<400> 4992

Leu	Phe	Pro	Thr	His	Pro	Lys	Pro	Arg	Thr	Arg	Leu	Phe	Ser	Leu	Ser
1				5					10					15	
Ser	Gly	Arg	Met	Arg	Arg	Ala	Gly	Leu	Gly	Glu	Gly	Val	Pro	Pro	Gly
			20					25					30		
Asn	Tyr	Gly	Asn	Tyr	Gly	Tyr	Ala	Asn	Ser	Gly	Tyr	Ser	Ala	Cys	Glu
		35					40					45			
Glu	Glu	Asn	Glu	Arg	Leu	Thr	Glu	Ser	Leu	Arg	Ser	Lys	Val	Thr	Ala

4510

50		55		60	
Ile Lys Ser Leu Ser	Ile Glu Ile Gly His Glu Val Lys Thr Gln Asn				
65	70	75		80	
Lys Leu Leu Ala Glu Met Asp Ser Gln Phe Asp Ser Thr Thr Gly Phe					
	85	90		95	
Leu Gly Lys Thr Met Gly Lys Leu Lys Ile Leu Ser Arg Gly Ser Gln					
	100	105		110	
Thr Lys Leu Leu Cys Tyr Met Met Leu Phe Ser Leu Phe Val Phe Phe					
	115	120		125	
Ile Ile Tyr Trp Ile Ile Lys Leu Arg					
	130	135			

<210> 4993

<211> 112

<212> PRT

<213> Homo sapiens

<400> 4993

Ser Thr Leu Leu Leu Leu Pro Leu Pro Val Arg Pro Ala Phe Gly Glu					
1	5	10		15	
Lys Val Arg Leu Glu Leu Arg Arg Ala Ala Asn Pro Thr Val Pro Phe					
	20	25		30	
Arg Cys Leu Val Leu Pro Leu Gln Pro Arg Thr Leu Thr Phe Lys Arg					
	35	40		45	
Val Thr Ala Gly Arg Gln Gly Arg Gly Ser Arg Thr Leu Ser Glu Cys					
	50	55		60	
Leu Ala Val Pro Trp Pro Val Arg Ala Ser Trp Leu Thr Phe Gln Leu					
	65	70		75	80
Ala Glu Leu Trp Asp Thr Ser Phe Leu Val Ser Cys Ala Arg Ser Tyr					
	85	90		95	
Gly Lys Arg Glu Leu Gln Leu Arg Phe Ser Ser Ser Gln Thr Val Lys					
	100	105		110	

4511

<210> 4994

<211> 65

<212> PRT

<213> Homo sapiens

<400> 4994

His	Val	Ala	Leu	Trp	Leu	Lys	Phe	Phe	Asn	Leu	Glu	Met	Thr	Gln	Thr
1				5					10					15	

His	Arg	Arg	Cys	Ser	Asn	Thr	Thr	Tyr	Ser	Ala	Asn	Leu	Gly	Lys	Gly
			20					25					30		

Thr	Ser	Gln	Leu	Ala	Arg	Phe	Pro	His	Tyr	Leu	Pro	Cys	Ile	His	Ala
		35					40					45			

Ala	His	Val	Phe	Phe	Ile	Arg	Met	Leu	Val	Lys	Phe	Trp	Leu	Leu	Tyr
	50					55					60				

Ile

65

<210> 4995

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4995

Leu	Lys	Xaa	Cys	Val	Cys	Met	Gln	Thr	Tyr	Val	Asn	Thr	His	Ile	His
1				5					10					15	

Ile	Gly	Tyr	Asp	Asp	Asp	Asn	Tyr	Leu	Leu	Gln	Ile	Arg	Cys	Leu	Leu
			20					25					30		

Tyr	Val	Tyr
		35

<210> 4996

<211> 39

<212> PRT

<213> Homo sapiens

<400> 4996

4512

Lys Ile Ile Ser Thr Phe Ile Leu Phe Thr Asn Lys Leu Pro Phe Lys
 1 5 10 15

Lys Ile Lys Pro His Tyr Leu Asn Ile Lys Leu Pro Asn Asn Ile Val
 20 25 30

Leu Lys Cys Thr Ile Leu Thr
 35

<210> 4997

<211> 157

<212> PRT

<213> Homo sapiens

<400> 4997

Ala Ala Ala Cys Gly Leu Glu Thr Arg Glu Asp Gly Arg Gly Arg Gly
 1 5 10 15

Leu Leu Val Phe Tyr Gly Pro Ser Thr Pro Thr Thr Thr His Ser Ser
 20 25 30

Trp Arg Pro Arg Ala Thr Val Gly Leu Leu Gly Ile Leu Arg Leu Arg
 35 40 45

Leu Val Glu Thr Pro Gly Asp Gly Gly Ala Leu Gly His Ser Glu Thr
 50 55 60

Ala Leu Gly Gly Ala Pro Tyr Trp Pro Asp Trp Ile Ser Gln Pro Ala
 65 70 75 80

Thr Gln Pro Gln Ala Thr Arg Lys Lys Pro Asp Leu Gly Asn Ser Ser
 85 90 95

Ser Ser Phe Phe Phe Phe Phe Leu Ile Ala Leu Gly Asn Phe Pro Asn
 100 105 110

Leu Gly Pro Ser Ser Phe Ser Lys Leu Arg Ser His Gly Leu Ser Pro
 115 120 125

Ala Ser Pro Val Cys Thr Arg Arg Arg Phe Ile Phe Ser Pro Leu Val
 130 135 140

Ser Phe Tyr Cys Leu Leu Arg Pro Ser Ser Cys Ser His
 145 150 155

<210> 4998

<211> 44

4513

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4998

Asn	Tyr	Arg	Ser	Lys	Leu	Phe	Val	Asp	Asn	Phe	Arg	Val	Lys	Phe	Asp
1				5					10					15	

Asn	Leu	Gly	Tyr	Leu	Pro	Asn	Phe	Lys	Ile	Glu	Val	Arg	Ile	Ser	Val
			20					25					30		

Thr	Gln	Pro	Trp	Glu	Xaa	Trp	Xaa	Ser	His	Ile	Arg
			35				40				

<210> 4999

<211> 44

<212> PRT

<213> Homo sapiens

<400> 4999

Thr	Glu	Asp	Leu	Phe	Gly	Phe	Lys	His	Leu	Leu	Arg	Gln	Tyr	Leu	Leu
1				5					10					15	

Gly	Lys	Pro	Asn	Ile	Ala	Asn	Gly	Gln	Phe	Asp	Phe	Asn	Phe	Ser	Lys
			20					25					30		

Asp	Thr	Leu	Leu	Ser	Arg	Arg	Leu	Lys	Cys	Leu	His
			35					40			

<210> 5000

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

4514

<400> 5000

Glu Xaa Val Leu Lys Pro Phe Ile Ser Phe Tyr Phe Ala Ile Cys Lys
1 5 10 15

Cys Leu Leu Ser Ser Leu His Glu Val Ala Val Thr Phe Phe Thr Phe
20 25 30

Lys Leu Pro Phe Tyr Phe
35

<210> 5001

<211> 34

<212> PRT

<213> Homo sapiens

<400> 5001

Pro Leu Leu Ser Leu His Val Ser Ile Glu Gly Ser Gly Ile Pro Gly
1 5 10 15

Trp Gln Leu Met Asp Lys Arg His Tyr Ala Lys Ile Gln Phe Trp Ile
20 25 30

Ser Tyr

<210> 5002

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5002

4515

Xaa Leu Gly Tyr Thr Xaa Xaa Lys Gly Thr Lys Ala Gly Val Thr Ala
 1 5 10 15
 Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Trp
 20 25 30
 His Glu Pro Lys Gly Thr Gln Cys Gly Met Thr Lys Tyr Leu Leu Ser
 35 40 45
 Glu Ser Thr Ala Phe Thr Tyr Leu Pro Val Phe Lys Ile Phe Val Lys
 50 55 60
 Ser Tyr Lys Lys Leu Gln Phe Asp Gln Ile Trp Val Tyr Ala Val Cys
 65 70 75 80
 Tyr Pro Gln Arg His Phe Glu Ser Ser Cys Asp Ala Phe Asn Asn Val
 85 90 95
 Leu Ser Leu Leu Ile Pro Leu Ser Asn Leu Ile Trp Tyr Ser Gln Asn
 100 105 110
 Ser Tyr Ser Leu Arg Gly Asn
 115

<210> 5003

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5003

Val Cys Ile Tyr Phe Phe Ser Lys Glu Thr Ala Tyr Ile Phe His Val
 1 5 10 15

Ser Met Phe Leu Arg Pro Trp Val Thr Val Gly Ile Ala Leu Met Gly

4516

	20		25		30
Ala Xaa Gln Ala Trp Gly Leu Val Leu Ala Leu Asp Leu Glu Gln Gly					
	35		40		45
Thr Ser Pro Ala Gly Leu Gln Phe Ser Pro Leu Xaa Asn Glu Arg Xaa					
	50		55		60
Glu Leu Ser Asp Leu Lys Ser Phe Gln					
	65		70		

<210> 5004

<211> 100

<212> PRT

<213> Homo sapiens

<400> 5004

Ile Ala Asn Ser Ser Leu Gly Leu Ala Leu Ser Val Asp Phe Ser Met					
1		5		10	15
Leu Arg Arg Lys Pro Thr Arg Leu Glu Leu Lys Leu Asp Asp Ile Glu					
	20		25		30
Glu Phe Glu Asn Ile Arg Lys Asp Leu Glu Thr Arg Lys Lys Gln Lys					
	35		40		45
Glu Asp Val Glu Val Val Gly Gly Ser Asp Gly Glu Gly Ala Ile Gly					
	50		55		60
Leu Ser Ser Asp Pro Lys Ser Arg Glu Gln Met Ile Asn Asp Arg Ile					
	65		70		75
Gly Tyr Lys Pro Gln Pro Lys Pro Asn Asn Arg Ser Ser Gln Phe Gly					
		85		90	95
Ser Leu Glu Phe					
	100				

<210> 5005

<211> 281

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring L-amino acids

4517

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (277)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (278)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5005

Val	Leu	Leu	Leu	Gln	Lys	Asp	Ser	Leu	Leu	Thr	Ala	Ala	Gln	Leu	Lys
1				5					10					15	

Ala	Lys	Gly	Glu	Leu	Ser	Phe	Glu	Gln	Asp	Gln	Leu	Val	Ala	Gly	Gly
			20					25					30		

Gln	Leu	Gly	Glu	Leu	His	Asn	Gly	Thr	Gln	Tyr	Arg	Glu	Val	Arg	Gln
		35					40					45			

Phe	Cys	Ser	Gly	Ser	Gly	His	His	Leu	Val	Arg	Phe	Tyr	Phe	Leu	Thr
	50					55					60				

Arg	Val	Tyr	Ser	Glu	Tyr	Leu	Glu	Asp	Val	Leu	Glu	Glu	Leu	Thr	Tyr
65					70					75					80

Gly	Pro	Ala	Pro	Asp	Leu	Val	Ile	Ile	Asn	Ser	Cys	Leu	Trp	Asp	Leu
				85					90					95	

Ser	Arg	Tyr	Gly	Arg	Cys	Ser	Met	Glu	Ser	Tyr	Arg	Glu	Asn	Leu	Glu
			100					105					110		

Arg	Val	Phe	Val	Arg	Met	Asp	Gln	Val	Leu	Pro	Asp	Ser	Cys	Leu	Leu
		115					120					125			

Val	Trp	Asn	Met	Ala	Met	Pro	Leu	Gly	Glu	Arg	Ile	Thr	Gly	Gly	Phe
	130					135					140				

Leu	Leu	Pro	Glu	Leu	Gln	Pro	Leu	Ala	Gly	Ser	Leu	Arg	Arg	Asp	Val
145					150					155					160

Val	Glu	Gly	Asn	Phe	Tyr	Ser	Ala	Thr	Leu	Ala	Gly	Asp	His	Cys	Phe
			165						170					175	

Asp	Val	Leu	Asp	Leu	His	Phe	His	Phe	Arg	His	Ala	Val	Gln	His	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4518

	180		185		190	
His Arg Asp Gly Val His Trp Asp Gln His Ala His Arg His Leu Ser						
195		200		205		
His Leu Leu Leu Thr His Val Ala Asp Ala Trp Gly Val Glu Leu Pro						
210		215		220		
Lys Arg Gly Tyr Pro Pro Gly Glu Pro Tyr His Lys Trp Gly Gly Ser						
225		230		235		240
Asp Ala Leu Gly Pro Ser Glu Asp Arg Ala Xaa Lys Gln Asn Gly Thr						
	245		250		255	
Gln Pro Leu Lys Gly Ser Xaa Gly Pro Leu Lys Asp Ser Cys Gly Phe						
	260		265		270	
Cys Met His Leu Xaa Xaa Pro Leu Arg						
275		280				

<210> 5006

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5006

Arg Tyr Tyr Leu Ile Ile Ile Lys Ile Arg Gly His Ser Phe Glu Pro
1 5 10 15

4519

Ser Leu Thr Phe Gln Phe Lys Leu Gly Pro Xaa Pro Ser Lys Xaa Leu
 20 25 30

Gly Phe Arg His Xaa Pro Leu Val Leu Ala Gly Leu Xaa
 35 40 45

<210> 5007

<211> 95

<212> PRT

<213> Homo sapiens

<400> 5007

Asn Met Tyr Gly Thr Ser Cys Leu Ile Leu His Val Thr Ser Leu Leu
 1 5 10 15

Tyr Ile Asp Glu Val Leu Val Thr Leu Ser Ser Asn Thr Leu Pro Leu
 20 25 30

Leu Phe Arg Glu Cys Leu Arg Asp Phe Leu Tyr Trp Phe Tyr Tyr Ser
 35 40 45

Asp Tyr Gly Leu Asp Leu Ser Ile Leu Leu Leu Pro Pro Gly Phe Leu
 50 55 60

Ile Ile His Pro Ser Lys Leu Ile Phe Cys Glu Ala Phe Val Ser Gln
 65 70 75 80

Ile Lys Thr Leu Leu Glu Pro Lys Val Val Ala Asp Gly Tyr Leu
 85 90 95

<210> 5008

<211> 82

<212> PRT

<213> Homo sapiens

<400> 5008

Leu Pro Lys Gln Ile Leu Asp Arg His Cys Ile Tyr Trp Tyr Gly Ser
 1 5 10 15

Gly Leu Tyr Gly Val Val Cys Thr His Leu Gly Leu Phe Ser Leu Asn
 20 25 30

Pro Ala Pro Asn Glu Ser Gly Gly Arg Val His Ser Ile Ser Phe Asn
 35 40 45

Val Val Met His His Lys Leu Asn Ile Arg Met Lys Met Lys Leu Asp
 50 55 60

4520

Phe Asp Val Ser Leu Lys Pro Phe Pro Cys Pro Ile His Ser Pro Pro
 65 70 75 80

Pro Pro

<210> 5009

<211> 83

<212> PRT

<213> Homo sapiens

<400> 5009

Ser Leu Ser Ser Pro Ala Val Lys Met Leu Ile Met Ile Leu Thr Leu
 1 5 10 15

Lys Ile Arg Pro His Lys Glu Gln Gly Asn Ser Arg Gly Gly Thr Gln
 20 25 30

Leu Gly Glu Ser Arg Pro Gly Gln Gly Lys Glu Thr His Lys Pro Asn
 35 40 45

Arg Ala Ala Leu Gly Lys Val Leu Ile Ser Trp Cys Cys Phe Leu Ser
 50 55 60

His Met Pro Ile Pro Gln Ala Val Pro Leu Ser Trp Leu Cys Arg Met
 65 70 75 80

Ser Ser Ser

<210> 5010

<211> 76

<212> PRT

<213> Homo sapiens

<400> 5010

Tyr Pro Ser Val Thr Ser Gly Thr Phe Arg Arg Lys Pro Asn Ser Ser
 1 5 10 15

Val Trp Cys Thr Arg Ser Ser Asp Val Phe Pro Pro Pro Asn Val Leu
 20 25 30

Val Lys Gln Thr Tyr Thr Ser Ser Glu Ala Thr Phe Gly Gln Ala Ser
 35 40 45

Arg Leu Gly Lys Cys Cys Thr Leu Cys Ile Lys Cys Ala Ser His Pro

4521

50 55 60
 Ser Pro Leu Gly Lys Phe Leu Cys Ile Leu Gln Ala
 65 70 75

 <210> 5011
 <211> 95
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5011
 Pro Ile Ile Pro Met Phe Thr Gln Asn Ile Arg Glu Gly Phe Arg Ser
 1 5 10 15
 Leu Gly Gly Thr Arg Leu Phe Arg Trp Leu Tyr Glu Lys Phe Arg Tyr
 20 25 30
 Pro Phe Ala Pro Met Tyr Gly Gly Phe Pro Val Lys Leu Arg Thr Tyr
 35 40 45
 Leu Gly Asp Pro Ile Pro Tyr Asp Pro Gln Ile Thr Ala Glu Glu Leu
 50 55 60
 Ala Glu Lys Thr Xaa Asn Ala Val Gln Ala Leu Ile Asp Lys His Gln
 65 70 75 80
 Arg Ile Pro Gly Asn Ile Met Ser Ala Leu Leu Glu Arg Phe His
 85 90 95

<210> 5012
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 5012
 Ala Ala Arg Ala Leu Ser Leu Ser Leu Ser Pro Glu Val Asp Phe Pro
 1 5 10 15
 Val Pro Pro Gly Arg Gly Arg Ser Val Glu Ser Val Gln Ser Gln Pro
 20 25 30
 Gln Glu Pro Val Ser Val Pro Gln Thr Leu Thr Ser Thr Leu Glu His

4522

35 40 45
 Ile Val Gly Gln Leu Asp Val Leu Thr Gln Thr Val Ser Ile Leu Glu
 50 55 60
 Gln Arg Leu Thr Leu Thr Glu Asp Lys Leu Lys Gln Cys Leu Glu Asn
 65 70 75 80
 Gln Gln Leu Ile Met Gln Arg Ala Thr Pro
 85 90

 <210> 5013
 <211> 178
 <212> PRT
 <213> Homo sapiens

 <400> 5013
 His Glu Leu Arg Arg Arg Met Leu Glu Ala Ala Asp Phe Ala Ala Arg
 1 5 10 15
 Lys His Arg Gln Gln Arg Arg Lys Asp Pro Glu Gly Thr Pro Tyr Ile
 20 25 30
 Asn His Pro Ile Gly Val Ala Arg Ile Leu Thr His Glu Ala Gly Ile
 35 40 45
 Thr Asp Ile Val Val Leu Gln Ala Ala Leu Leu His Asp Thr Val Glu
 50 55 60
 Asp Thr Asp Thr Thr Leu Asp Glu Val Glu Leu His Phe Gly Ala Gln
 65 70 75 80
 Val Arg Arg Leu Val Glu Glu Val Thr Asp Asp Lys Thr Leu Pro Lys
 85 90 95
 Leu Glu Arg Lys Arg Leu Gln Val Glu Gln Ala Pro His Ser Ser Pro
 100 105 110
 Gly Ala Lys Leu Val Lys Leu Ala Asp Lys Leu Tyr Asn Leu Arg Asp
 115 120 125
 Leu Asn Arg Cys Thr Pro Glu Gly Trp Ser Glu His Arg Val Gln Glu
 130 135 140
 Tyr Phe Glu Trp Ala Ala Gln Val Val Lys Gly Leu Gln Gly Thr Asn
 145 150 155 160
 Arg Gln Leu Glu Glu Ala Leu Lys His Leu Phe Lys Gln Arg Gly Leu
 165 170 175

4523

Thr Ile

<210> 5014

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5014

Thr	Ile	Phe	Ala	Val	Met	Xaa	Ser	Phe	Asn	Val	Ser	Phe	Gln	Xaa	Gly
1				5					10					15	

Pro	Ile	Lys	Val	Phe	Leu	Tyr	Leu	Val	Asn	Lys	Asp	His	Ser	Cys	Gly
			20					25					30		

Leu	Val	Arg	Gly	Cys	Ile	His	Arg	Leu	Trp	Glu	Ala	Val	Val	Cys	Val
		35					40					45			

Cys	Val	Ser	Ile	Ser	Ile	Phe	Tyr	Val	Tyr	Asn	Ser	Ala	Tyr
	50					55				60			

<210> 5015

<211> 90

<212> PRT

<213> Homo sapiens

<400> 5015

Ser	Thr	Ala	Leu	Gly	Ala	Gly	Gly	Ala	Phe	Ser	Val	Pro	Leu	Leu	Ser
1				5					10					15	

Leu	Leu	Ser	Ala	Ser	Leu	Val	Leu	Pro	Ala	His	Phe	His	Asn	Val	Leu
			20					25					30		

Leu	Gly	Cys	Ile	Gly	Ile	Val	Cys	Cys	Leu	Asp	Pro	Trp	Pro	Arg	Leu
		35					40					45			

4524

Ser Leu Pro Val Arg Glu Thr Lys Leu Thr Thr Lys Gly Phe Cys Gln
 50 55 60

Ile Ala Phe Ile Tyr Arg Ile Cys Pro Phe Met Cys Leu Cys Val Tyr
 65 70 75 80

Gly Leu Asn Gly Phe Leu Thr Ser Lys Lys
 85 90

<210> 5016

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5016

Val Tyr Arg Val Leu Lys Pro Leu Lys Xaa Asn Ala Asn Xaa Ala Lys
 1 5 10 15

Ser Leu Leu Leu Thr Thr Ile Pro Gln Ile Gly Ser Thr Glu Trp Ser
 20 25 30

Glu Thr Leu Xaa Asn Leu Lys Asn Met Ala Gln Phe Ser Val Leu Leu
 35 40 45

Pro Arg His
 50

<210> 5017

<211> 333

<212> PRT

<213> Homo sapiens

```

<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5017
Gly Arg Arg Ala Gln Arg Ser Thr Pro Arg Ser Leu Ala Arg Val Ser
 1             5             10             15
Gln Arg Gly Pro Thr Arg Tyr Ala Asp Ala Pro Thr Pro Ile Arg Pro
      20             25             30
Ser Gln Asp Ser Thr Met Thr Leu Asn Asn Val Thr Met Arg Gln Gly
      35             40             45
Thr Val Gly Met Gln Pro Gln Gln Gln Arg Trp Ser Ile Pro Ala Asp
      50             55             60
Gly Arg His Leu Met Val Gln Lys Glu Pro His Gln Tyr Ser His Arg
 65             70             75             80
Asn Arg His Ser Ala Thr Pro Glu Asp His Cys Arg Arg Ser Trp Ser
      85             90             95
Ser Asp Ser Thr Asp Ser Val Ile Ser Ser Glu Ser Gly Asn Thr Tyr
      100            105            110
Tyr Arg Val Val Leu Ile Gly Glu Gln Gly Val Gly Lys Ser Thr Leu
      115            120            125
Ala Asn Ile Phe Ala Gly Val His Asp Ser Met Asp Ser Asp Cys Xaa
      130            135            140
Val Leu Gly Glu Asp Thr Tyr Glu Arg Thr Leu Met Val Asp Gly Glu
 145            150            155            160
Ser Ala Thr Ile Ile Leu Leu Asp Met Trp Glu Asn Lys Gly Glu Asn
      165            170            175
Glu Trp Leu His Asp His Cys Met Gln Val Gly Asp Ala Tyr Leu Ile
      180            185            190
Val Tyr Ser Ile Thr Asp Arg Ala Ser Phe Glu Lys Ala Ser Glu Leu
      195            200            205
Arg Ile Gln Leu Arg Arg Ala Arg Gln Thr Glu Asp Ile Pro Ile Ile
      210            215            220
Leu Val Gly Asn Lys Ser Asp Leu Val Arg Cys Arg Glu Val Ser Val
 225            230            235            240

```

4526

Ser Glu Gly Arg Ala Cys Ala Val Val Phe Asp Cys Lys Phe Ile Glu
 245 250 255
 Thr Ser Ala Ala Val Gln His Asn Val Lys Glu Leu Phe Glu Gly Ile
 260 265 270
 Val Arg Gln Val Arg Leu Arg Arg Asp Ser Lys Glu Lys Asn Glu Arg
 275 280 285
 Arg Leu Ala Tyr Gln Lys Arg Lys Glu Ser Met Pro Arg Lys Ala Arg
 290 295 300
 Arg Phe Trp Gly Lys Ile Val Ala Lys Asn Asn Lys Asn Met Ala Phe
 305 310 315 320
 Lys Leu Lys Ser Lys Ser Cys His Asp Leu Ser Val Leu
 325 330

<210> 5018

<211> 101

<212> PRT

<213> Homo sapiens

<400> 5018

Glu Pro Leu Trp Glu Asn Leu Phe Leu Pro Pro Leu Gly Lys Gln Lys
 1 5 10 15
 Asn Phe Ser Val Phe Gly Glu Tyr Phe Arg Asn Ser Asn Glu Arg His
 20 25 30
 Cys Phe Ser Cys Trp Leu Thr Gly Leu Lys Gly Ala Phe Val Leu Leu
 35 40 45
 Gly Gln Gly Glu Arg Gly Asp Pro Arg Lys Val Ser Leu Pro Glu Asp
 50 55 60
 Gly Gln Pro Pro Gly Leu Gln Leu Gln Val His Ile Thr Arg Thr Ala
 65 70 75 80
 Trp Gln Pro Gly Pro Pro Gly Ala His Ser Arg Gln Pro Leu Pro Arg
 85 90 95
 Gly Leu Ile Leu Gln
 100

<210> 5019

<211> 52

4527

<212> PRT

<213> Homo sapiens

<400> 5019

Arg Tyr Leu Ile Ser Leu Ser Cys Asn Leu Tyr Leu Gln Thr Gly Val
 1 5 10 15

Ser Asn Pro Ile Asn Leu Ile Ala Asp Ile Val Arg Lys Asn Glu Met
 20 25 30

Thr Ser Val Lys Thr Gln Asn Tyr Thr Tyr Lys Val Ser Arg Gln Asn
 35 40 45

Met Leu Leu Leu
 50

<210> 5020

<211> 51

<212> PRT

<213> Homo sapiens

<400> 5020

Pro Val Asp Ser Cys Ala Val Ser Pro Gly Val Ala Lys Glu Ala Ala
 1 5 10 15

Ser Gly Ser Trp Gly Leu Val Ala Arg Ser Gln Gln Glu Cys Leu Leu
 20 25 30

Tyr Phe Val Arg Asp Ala Glu Gln Ile Ser Asn Ser Val Ala Val Met
 35 40 45

Leu Ala Ser
 50

<210> 5021

<211> 79

<212> PRT

<213> Homo sapiens

<400> 5021

Thr Ser Ser Thr Ile Asn Cys Ser Leu Gly Thr Phe Tyr Ala Gln Asn
 1 5 10 15

Cys Ala Pro Ser Ser Glu Gln Gln Val Phe Asn Gly Pro Cys Asp Glu
 20 25 30

Lys Gly Pro Ile Lys Ala Ala Gly Met Gly His Ser Pro Thr Pro His

35

45

Leu His Gly Arg Ser His Phe Cys Lys Lys Phe Thr Phe Leu Lys
65 70 75

<210> 5022

<211> 79

<212> PRT

<213> Homo sapiens

<400> 5022

Asn Leu Lys Pro Pro Leu Glu Pro Pro Phe Cys Arg Val Phe Gly Lys
1 5 10 15

Arg Lys Lys Gly Leu Cys Leu Arg Leu Trp Gly Arg Gly Asp Tyr Val
20 25 30

Thr Ser Val Gln Thr Ala Gly Asn Leu Lys Thr Val Leu Ser Leu Phe
35 40 45

Leu Tyr Ile Val Phe Ile Tyr Lys Lys Lys Arg Leu Arg Met His Ala
50 55 60

Lys Leu Leu Phe Ser Val Ser His Arg Pro Arg Trp Asn Val Lys
65 70 75

<210> 5023

<211> 141

<212> PRT

<213> Homo sapiens

<400> 5023

Leu Leu Gln Val Asp Phe His Asn Met Gln Ser Gly Gly Gly Val Lys
1 5 10 15

Thr Asp Asp Thr Ser Thr Leu Asn Ser Leu Cys Gly Tyr Ala Trp Val
20 25 30

Tyr Val Trp Glu Glu Lys Gln Arg Cys Arg Leu Ser Ser Phe Phe Ser
35 40 45

Ser Ser Ala Ser Ile Pro Gly Leu Leu Pro Ser His Thr Leu Asp Leu
50 55 60

4529

Val Gln Asn Val Gly Val Val Leu Asp Glu Ala Leu Gly Trp Gly Arg
 65 70 75 80

Glu Arg Glu Leu Cys Val Lys Cys Leu Leu Glu Met His Cys Gly Val
 85 90 95

Phe Ser Cys Met Gly Asn His Leu Cys Gln Ala Phe Pro His Phe Pro
 100 105 110

Tyr Leu Ser His Leu Val Ser Cys Leu Cys Phe Gln Leu Cys Val Ile
 115 120 125

Leu Phe Ala Ser Cys Thr Lys Leu Ile Phe Ser Lys Val
 130 135 140

<210> 5024

<211> 30

<212> PRT

<213> Homo sapiens

<400> 5024

Gly Thr Arg Val Ser Asp Leu Ala Thr Ile Ser Leu Gly Ser Cys Gln
 1 5 10 15

Asn Leu Ile Phe Ser Leu Lys Thr Pro Ile Cys Ser His Ser
 20 25 30

<210> 5025

<211> 241

<212> PRT

<213> Homo sapiens

<400> 5025

Ile Phe Gly Met Ser Lys Leu Arg Met Val Leu Leu Glu Asp Ser Gly
 1 5 10 15

Ser Ala Asp Phe Arg Arg His Phe Val Asn Leu Ser Pro Phe Thr Ile
 20 25 30

Thr Val Val Leu Leu Leu Ser Ala Cys Phe Val Thr Ser Ser Leu Gly
 35 40 45

Gly Thr Asp Lys Glu Leu Arg Leu Val Asp Gly Glu Asn Lys Cys Ser
 50 55 60

Gly Arg Val Glu Val Lys Val Gln Glu Glu Trp Gly Thr Val Cys Asn
 65 70 75 80

4530

Asn Gly Trp Ser Met Glu Ala Val Ser Val Ile Cys Asn Gln Leu Gly
 85 90 95
 Cys Pro Thr Ala Ile Lys Ala Pro Gly Trp Ala Asn Ser Ser Ala Gly
 100 105 110
 Ser Gly Arg Ile Trp Met Asp His Val Ser Cys Arg Gly Asn Glu Ser
 115 120 125
 Ala Leu Trp Asp Cys Lys His Asp Gly Trp Gly Lys His Ser Asn Cys
 130 135 140
 Thr His Cys Glu Pro Arg Asn Ala Thr Pro Trp Lys Pro His Thr Leu
 145 150 155 160
 Leu Ser Pro Ser Val Leu Ile Pro Val Leu Leu Thr Val Ser Pro Ser
 165 170 175
 Trp Leu Phe Leu Glu Ser Leu Ser Phe Pro His Phe His Phe Leu Pro
 180 185 190
 Leu Tyr Cys His Leu Trp Pro Gly Phe Ala Leu Leu Val Gln His Pro
 195 200 205
 Gln Leu Gln His Leu Cys Leu Ser Ala Pro Ser Thr Arg Gln Lys Leu
 210 215 220
 Thr Leu Glu Asn Ile Arg His Ser Glu Ser Arg Val Leu Gly Ser Asp
 225 230 235 240
 Gly

<210> 5026

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

4531

<400> 5026

```

Ile Arg Gln Cys Val Lys His Trp His Thr Asn Ala Ala Lys Gly Ala
 1             5             10             15

Glu Gly Arg Gln Trp Gly Gly Ala Gly Thr Gln Gln Gly Ala Leu Pro
      20             25             30

Arg Asp Thr Leu Val Ile Phe Ser Thr Glu Xaa His Pro Xaa Ala Phe
      35             40             45

Leu Gln His Leu
      50

```

<210> 5027

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5027

```

Gly Gly Ser Glu Asp Gln Leu Glu Asp Pro Ala Leu Ser Gly Lys Ala
 1             5             10             15

Trp Glu Cys Glu Met Gly Arg Arg Gly Trp Asp Leu Gly Gly Trp Gly
      20             25             30

Gln Ala Leu Ser Pro Ser Leu Leu Ala Phe Gln Ser Leu Gly Arg Asn
      35             40             45

Leu Ser Xaa Leu Pro Pro Leu Ser Leu Ala His Arg His Pro Ala Cys
      50             55             60

Ile Ser Gln Glu Glu Val Glu Gly Thr Ser Leu Phe Pro Arg Asn Pro
      65             70             75             80

Leu Tyr Pro His Pro Val Leu Cys Ser Ser Pro Arg Leu Leu Gly Leu
      85             90             95

Arg Leu Leu Thr Ser Arg Arg Leu Arg Leu Val Cys Val Cys Leu Phe
      100             105             110

Ala His Leu Trp Leu Ile Pro Arg Glu Pro Gly His Leu Leu Pro Asp
      115             120             125

Ala His Pro Cys Gln Ser Phe Leu His Ser Pro Ser Gly Arg Trp Asp

```

4532

130 135 140
 Val Arg Gln Pro Thr Leu Glu Asn Pro Glu Asn Arg Glu Gln Gly Phe
 145 150 155 160
 Ala Leu His Asn Ser Thr Pro Gln Ile Leu Ser Pro Gly His Arg Arg
 165 170 175
 Pro Thr Gly Gln Asp Pro Lys Ile Trp Gly Lys Glu Val Leu Arg Thr
 180 185 190
 Leu Arg Tyr Pro
 195

<210> 5028

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5028

Met Phe Leu Asp Gly Gly Leu Pro Ser Ser Lys Leu Leu Pro Ile Cys
 1 5 10 15
 Thr Ser Val Leu Gly Gln Gly Lys Xaa Lys Ala Arg Ser Cys Lys Ser
 20 25 30
 His Ser Ser Gly Ser Gln Phe His Pro Gln Phe Lys Glu Leu Ser Arg
 35 40 45
 Gln Arg Gln Arg Leu Tyr Ser Thr His Val Gln Leu Lys Ala Gly Glu
 50 55 60
 Ala Lys Pro Gly Gln Arg Lys Gly Lys Gly Cys Val
 65 70 75

<210> 5029

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4533

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5029

Pro	Glu	Ile	Ala	Pro	Asn	Gly	Gln	Ser	Leu	Val	Lys	Gln	Leu	His	Glu
1				5					10					15	

Arg	Gln	Leu	Asp	Leu	Pro	Tyr	Leu	Pro	Leu	Lys	Arg	Pro	Lys	Trp	Thr
			20					25					30		

Asn	Xaa	Ser	Ser	Gln	Leu	Leu	Gly	Tyr	Phe	Thr	Leu	Ala	Leu	Tyr	Thr
		35					40					45			

Ser	Ala	Pro	Ser	Lys	Leu	Lys	Gly	Asp	Leu	Asn	Tyr	Leu	Arg	Leu	Glu
	50					55					60				

Trp	Gly	Pro	Asp	Phe	Gln	Gln	His	Glu	Ala	Gly	Leu	Ile	Gly	Ala	Asp
65					70					75					80

Glu	Val	Pro	Ile	Leu	Thr	Xaa	Ser	Ser	Ala	Glu	Leu	Ala	Gln	Gln	Gln
				85					90					95	

Ile	Ala	Met	Leu	Asn	Gly	Cys	Thr	Trp	Leu	Pro	Val	Ser	Trp	Ala	Arg
			100					105					110		

Lys	Lys	Gly	Gly	Leu	His	Thr	Val	Val	Asp	Ser	Thr	Thr	Leu	Ser	Arg
		115					120					125			

Pro	Leu
	130

<210> 5030

<211> 132

<212> PRT

<213> Homo sapiens

<400> 5030

Leu	Val	His	Pro	Pro	Arg	Asn	Phe	Leu	Asp	Ala	Val	Arg	Ala	Arg	Trp
1				5					10					15	

Cys	Tyr	Leu	Glu	Leu	Lys	Lys	Leu	His	Ala	Ser	Val	Lys	Leu	Leu	Thr
			20				25						30		

Met	Ala	Lys	Asn	Lys	Leu	Arg	Gly	Pro	Lys	Ser	Arg	Asn	Val	Phe	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4534

35 40 45
Ile Ala Ser Gln Lys Asn Phe Lys Ala Lys Asn Lys Ala Lys Pro Val
50 55 60
Thr Thr Asn Leu Lys Lys Ile Asn Ile Met Asn Glu Glu Lys Val Asn
65 70 75 80
Arg Val Asn Lys Ala Phe Val Asn Val Gln Lys Glu Leu Ala His Phe
85 90 95
Ala Lys Ser Ile Ser Leu Glu Pro Leu Gln Lys Glu Leu Ile Pro Gln
100 105 110
Gln Arg His Glu Ser Lys Pro Val Asn Val Asp Glu Ala Thr Arg Leu
115 120 125
Met Ala Leu Leu
130

<210> 5031
<211> 68
<212> PRT
<213> Homo sapiens

<400> 5031
Arg Glu Cys Val Cys Thr Phe Ser Leu Tyr Lys Gly Gln Gly Val Gly
1 5 10 15
Gln Ile His His Arg Leu Ile Tyr Ile Phe Cys Cys Asp Phe Phe Gln
20 25 30
Leu Tyr Asn Lys Cys Gln Leu Ile Val His Gly Thr Ile Tyr Phe Ser
35 40 45
Thr Gln Phe Ile Val Leu Ser Arg Glu Arg Phe Ile Tyr Phe His Tyr
50 55 60
Leu Ala Leu Ser
65

<210> 5032
<211> 142
<212> PRT
<213> Homo sapiens
<220>

4535

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5032

Pro Thr Arg Pro Ala Ser Xaa Gly Cys Gly Leu Pro Leu Ser Leu Leu
 1 5 10 15

Arg Ala Val Thr Pro Val Pro Ala Ala Ile Arg Pro Gly Ala Pro Asp
 20 25 30

Glu Ser Met Arg Gly Arg Ala Arg Gly Val Val Phe Pro Arg Thr Pro
 35 40 45

Gly Gly Leu Pro Arg Pro Val Leu Cys Thr Ser Ser Pro Thr Lys Gly
 50 55 60

Glu Thr Glu Ala Pro Arg Gly Val Gly Arg Ala Gly Trp Thr Ser Gly
 65 70 75 80

Pro Ala Ala Gly Ala Val Val Arg Pro Leu Cys Arg Gly Gly Pro Leu
 85 90 95

Gly Phe Arg Val Ser Ser Gly Lys Arg Leu Ala Gly Leu Val Gly Cys
 100 105 110

Ala Ala Ile Leu Glu Thr Asp Asp Ser Ser Pro Xaa Asp Gly Phe Ala
 115 120 125

Gly Ser Ala Pro Ala Ser Ala Pro Ile Phe Pro Ala Ala Pro
 130 135 140

<210> 5033

<211> 255

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (242)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4536

<222> (248)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (249)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5033

Arg	Val	Met	Ser	Ala	Val	Leu	Leu	Leu	Ala	Leu	Leu	Gly	Phe	Ile	Leu
1				5					10					15	

Pro	Leu	Pro	Gly	Val	Gln	Ala	Leu	Leu	Cys	Gln	Phe	Gly	Thr	Val	Gln
			20					25					30		

His	Val	Trp	Lys	Val	Ser	Asp	Leu	Pro	Arg	Gln	Trp	Thr	Pro	Lys	Asn
			35				40					45			

Thr	Ser	Cys	Asp	Ser	Gly	Leu	Gly	Cys	Gln	Asp	Thr	Leu	Met	Leu	Ile
	50					55					60				

Glu	Ser	Gly	Pro	Gln	Val	Ser	Leu	Val	Leu	Ser	Lys	Gly	Cys	Thr	Glu
65					70				75						80

Ala	Lys	Asp	Gln	Glu	Pro	Arg	Val	Thr	Glu	His	Arg	Met	Gly	Pro	Gly
			85						90					95	

Leu	Ser	Leu	Ile	Ser	Tyr	Thr	Phe	Val	Cys	Arg	Gln	Glu	Asp	Phe	Cys
			100					105					110		

Asn	Asn	Leu	Val	Asn	Ser	Leu	Pro	Leu	Trp	Ala	Pro	Gln	Pro	Pro	Ala
		115					120					125			

Asp	Pro	Gly	Ser	Leu	Arg	Cys	Pro	Val	Cys	Leu	Ser	Met	Glu	Gly	Cys
	130					135					140				

Leu	Glu	Gly	Thr	Thr	Glu	Glu	Ile	Cys	Pro	Lys	Gly	Thr	Thr	His	Cys
145					150					155					160

Tyr	Asp	Gly	Leu	Leu	Arg	Leu	Arg	Gly	Gly	Gly	Ile	Phe	Ser	Asn	Leu
			165					170						175	

Arg	Val	Gln	Gly	Cys	Met	Pro	Gln	Pro	Gly	Cys	Asn	Leu	Leu	Asn	Gly
			180					185					190		

Thr	Gln	Glu	Ile	Gly	Pro	Val	Gly	Met	Thr	Glu	Asn	Cys	Asn	Arg	Lys
		195					200					205			

Asp	Phe	Leu	Thr	Cys	His	Arg	Gly	Thr	Thr	Ile	Met	Thr	His	Gly	Asn
		210					215				220				

4537

Leu Ala Gln Glu Pro Thr Asp Trp Thr Thr Ser Asn Tyr Arg Asp Val
 225 230 235 240

Arg Xaa Gly Ala Gly Val Ser Xaa Xaa Ala Ala Ala Pro Arg Cys
 245 250 255

<210> 5034

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5034

His Glu Gly Arg Arg Lys Lys Trp Met Leu Glu Ser Cys Xaa Met Ser
 1 5 10 15

Leu Trp Ile Ala Gln Lys Tyr Gln Leu Trp Leu Xaa Pro His Leu Ala
 20 25 30

Phe Val Ser Met Lys Lys Pro Gly Thr Ile Ser Thr Thr Ile Ser Asp
 35 40 45

His His Gln Pro Gln Ile Leu Gly Asn Leu Leu Glu Phe Phe Leu Asn
 50 55 60

Val Leu Asn Ser Cys Trp Val Pro Gly Arg Phe Gln Arg Lys
 65 70 75

<210> 5035

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

4538

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5035

Phe	Gly	Ala	Ser	Ser	Leu	Ser	Ser	Cys	Arg	Pro	Ile	Thr	Ile	Val	Pro
1				5				10						15	

Xaa	Gly	Lys	Lys	Trp	Ser	Pro	Ala	Pro	Ser	Pro	Val	Ala	Leu	Xaa	Xaa
		20						25					30		

Thr	Gly	Asn	Pro	Phe	Gly
		35			

<210> 5036

<211> 43

<212> PRT

<213> Homo sapiens

<400> 5036

Ser	Arg	Pro	Phe	Glu	Glu	Ile	Tyr	Glu	Trp	Asp	Ile	Lys	Gln	Phe	Ser
1				5				10						15	

Val	Leu	Gln	Val	Phe	Phe	Phe	Phe	Ser	Lys	Leu	Phe	Ala	Val	Ser	Asn
		20						25					30		

Cys	Asn	Gln	Tyr	Leu	Leu	Leu	Ser	Ile	Cys	Leu
		35					40			

<210> 5037

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5037

Ala	Gly	Phe	Ser	Val	Ile	Ala	Thr	Phe	Ala	Tyr	Phe	Phe	Pro	Tyr	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4539

1 5 10 15
 Pro Cys Leu Leu Met Leu Asn Ser Met Asn Leu Leu Ser Asp Ala Val
 20 25 30
 Leu Asp Cys Pro Cys Cys Ile Ser Ile Ile Ser Leu Phe Ser Phe Ser
 35 40 45
 Leu Tyr Tyr Tyr Asn Cys Ser Phe Tyr Met Lys Ala Arg Lys Leu Xaa
 50 55 60
 Leu Glu Glu His Leu Ser Ala Thr Cys Gln Phe Cys Val Ser Val Leu
 65 70 75 80
 Tyr Val Cys Val Asn Phe Pro Leu Lys
 85

<210> 5038

<211> 176

<212> PRT

<213> Homo sapiens

<400> 5038

Gly Pro Arg Gln Gly Asp His Leu Arg Ser Gly Val Ser Thr Lys Asn
 1 5 10 15
 Thr Lys Ile Arg Gln Val Trp Trp Trp Ala Pro Leu Arg Arg Leu Arg
 20 25 30
 Gln Glu Asn His Leu Asn Pro Gly Gly Arg Gly Cys Ser Glu Pro Asp
 35 40 45
 His Ala Ala Ala Leu Gln Pro Gly Arg Ser Pro Cys Val Leu Leu Gly
 50 55 60
 Ala Gly Ala Val Thr Tyr Pro Leu Ser Phe Ser Leu Ala Ile Ser Val
 65 70 75 80
 Val Ser Tyr Glu Ala Glu Ile Gly Lys Gly Tyr Met Gln Val Ser Gln
 85 90 95
 Trp Thr Trp Pro Met Leu Gln Ala Pro Ser Ser Gln Val Gln Gln Cys
 100 105 110
 Tyr His Leu Leu Leu Leu Gly Gly Gln Thr Arg His Pro His His Glu
 115 120 125
 Gly Ala Ala Gly Thr Met Asn Tyr Val Asn Asn Pro Ser Leu Tyr Tyr
 130 135 140

4540

Arg Lys Gly Cys Ser His Met Arg Ile Gln Ser Thr Gln Ala Pro Trp
 145 150 155 160

Pro Cys Ser Pro Leu Gln Pro Gln Gly Ser Gly Ser Pro Ile Trp Arg
 165 170 175

<210> 5039

<211> 274

<212> PRT

<213> Homo sapiens

<400> 5039

Arg Gly Cys Gly Ser Cys Gly Tyr Lys Pro Ser Ala Gly Pro Ala Trp
 1 5 10 15

Arg Pro Arg Pro Pro Pro Ala Val Ser Pro Leu Arg His Pro Glu Pro
 20 25 30

Ala Lys Val Leu Ser Phe Ser Ser Cys Pro Leu Pro Ala Leu Gly Arg
 35 40 45

Thr Gly Pro Ser Arg Ala Ala Arg Ala Gln Ser Leu Thr Met Ala Ser
 50 55 60

Leu Phe Lys Lys Lys Thr Val Asp Asp Val Ile Lys Glu Gln Asn Arg
 65 70 75 80

Glu Leu Arg Gly Thr Gln Arg Ala Ile Ile Arg Asp Arg Ala Ala Leu
 85 90 95

Glu Lys Gln Glu Lys Gln Leu Glu Leu Glu Ile Lys Lys Met Ala Lys
 100 105 110

Ile Gly Asn Lys Glu Ala Cys Lys Val Leu Ala Lys Gln Leu Val His
 115 120 125

Leu Arg Lys Gln Lys Thr Arg Thr Phe Ala Val Ser Ser Lys Val Thr
 130 135 140

Ser Met Ser Thr Gln Thr Lys Val Met Asn Ser Gln Met Lys Met Ala
 145 150 155 160

Gly Ala Met Ser Thr Thr Ala Lys Thr Met Gln Ala Val Asn Lys Lys
 165 170 175

4541

Met Asp Pro Gln Lys Thr Leu Gln Thr Met Gln Asn Phe Gln Lys Glu
 180 185 190

Asn Met Lys Met Glu Met Thr Glu Glu Met Ile Asn Asp Thr Leu Asp
 195 200 205

Asp Ile Phe Asp Gly Ser Asp Asp Glu Glu Glu Ser Gln Asp Ile Val
 210 215 220

Asn Gln Val Leu Asp Glu Ile Gly Ile Glu Ile Ser Gly Lys Met Ala
 225 230 235 240

Lys Ala Pro Ser Ala Ala Arg Ser Leu Pro Ser Ala Ser Thr Ser Lys
 245 250 255

Ala Thr Ile Ser Asp Glu Glu Ile Glu Arg Gln Leu Lys Ala Leu Gly
 260 265 270

Val Asp

<210> 5040
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 5040
 Thr Leu Lys Ile Glu Val Pro His Asp Pro Ala Ile Pro Leu Leu Asp
 1 5 10 15

Ile Tyr Pro Arg Asn Lys Lys
 20

<210> 5041
 <211> 73
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5041
 Ala Arg Phe Ile Lys Leu Ile Phe Phe Ile Leu Val Val Lys Ser Ser
 1 5 10 15

4542

Leu Ile Ala Phe Cys Gln Leu Asp Phe Xaa Val Cys Val Ile Phe Lys
 20 25 30
 Gly Arg Met Thr Gly Gln Ile Ser Asn Lys Lys Cys Ile Glu Leu Glu
 35 40 45
 Asn Ile Val Val Pro Ser Tyr Pro Trp Asp Ile Arg Ser Lys Thr Pro
 50 55 60
 Ser Glu Arg Leu Lys Pro Trp Ile Val
 65 70

<210> 5042

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5042

Ala Asp Val Glu Ser Pro Glu Leu Ile Ser Asn Phe Leu Pro Phe Pro
 1 5 10 15
 Phe Pro Ser Pro Ser Leu Pro Phe Pro Phe Ser Pro Leu Pro Ser Pro
 20 25 30
 Xaa Phe Pro Ser Pro
 35

<210> 5043

<211> 87

<212> PRT

<213> Homo sapiens

<400> 5043

Glu Gly Arg Leu Arg Gln Gly Arg Val Arg Glu His Cys Arg Gly Glu
 1 5 10 15
 Glu Gly Ile His Phe Leu Val Ile Ser Phe His Ser Lys Arg Val Ser
 20 25 30
 Gln Asn Arg Trp Pro Gly Thr Gly Glu Leu Gly Arg Ala Arg Arg Glu
 35 40 45

4543

Ile Ser Ala Cys Val Arg Lys Asp Gly Arg Ala Gly Leu Glu Pro Leu
 50 55 60
 Leu Asp Tyr Leu Gln Ser Phe Cys Ser Thr Leu Lys Val Asn Gln Cys
 65 70 75 80
 Leu Gln Thr Phe Pro Asp Thr
 85

<210> 5044

<211> 124

<212> PRT

<213> Homo sapiens

<400> 5044

Ile Asn Thr Ile Ile Phe Ile Trp Lys Phe Tyr Arg Arg Ala Ile Ser
 1 5 10 15
 Val Tyr Val Ile Thr Pro Asp Phe Leu Lys Leu Leu Leu Val Asp Asn
 20 25 30
 Arg Gln Val Leu Ser Ser Val Pro Leu Arg Val Val Pro Gly Leu Pro
 35 40 45
 Ala Val Glu Leu Thr Gly Gly Ile Leu Gln Phe Cys Asp Pro Arg Met
 50 55 60
 Arg Pro Arg Arg Ser Val Arg Ser Ala Gly Gly Gly Ala Trp Glu Ala
 65 70 75 80
 Val Phe Val Met Asn Ser Gly Val Phe Cys Pro Leu Lys Cys Ile Phe
 85 90 95
 Val His Pro Ile Arg Leu Lys Glu Arg Lys Ser Ile Ser Asn Glu Cys
 100 105 110
 Lys Leu Phe Leu Arg Lys Lys Cys Ile Arg Leu Leu
 115 120

<210> 5045

<211> 139

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (121)

4544

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5045

Asp Gln Gly Gly Glu Trp Lys His Gly Arg Ile Ile Leu Pro Ser Tyr
1 5 10 15

Asp Met Glu Tyr Gln Ile Val Phe Glu Gly Val Ile Gly Lys Gly Arg
20 25 30

Ser Gly Glu Ile Ala Ile Asp Asp Ile Arg Ile Ser Thr Asp Val Pro
35 40 45

Leu Glu Asn Cys Met Glu Pro Ile Ser Ala Phe Ala Gly Gly Thr Leu
50 55 60

Leu Pro Gly Thr Glu Pro Thr Val Asp Thr Val Pro Met Gln Pro Ile
65 70 75 80

Pro Ala Tyr Trp Tyr Tyr Val Met Ala Ala Gly Gly Ala Val Leu Val
85 90 95

Leu Val Ser Val Ala Leu Ala Leu Val Leu His Tyr His Arg Phe Arg
100 105 110

Tyr Ala Ala Lys Lys Thr Asp His Xaa Ile Thr Tyr Lys Thr Phe His
115 120 125

Tyr Thr Asn Gly Ala Pro Leu Ala Val Glu Xaa
130 135

<210> 5046

<211> 201

<212> PRT

<213> Homo sapiens

<400> 5046

Ala Leu Ile Met Ser Phe Ile Phe Glu Trp Ile Tyr Asn Gly Phe Ser
1 5 10 15

Ser Val Leu Gln Phe Leu Gly Leu Tyr Lys Lys Ser Gly Lys Leu Val
20 25 30

Phe Leu Gly Leu Asp Asn Ala Gly Lys Thr Thr Leu Leu His Met Leu
35 40 45

4545

Lys Asp Asp Arg Leu Gly Gln His Val Pro Thr Leu His Pro Thr Ser
 50 55 60
 Glu Glu Leu Thr Ile Ala Gly Met Thr Phe Thr Thr Phe Asp Leu Gly
 65 70 75 80
 Gly His Glu Gln Ala Arg Arg Val Trp Lys Asn Tyr Leu Pro Ala Ile
 85 90 95
 Asn Gly Ile Val Phe Leu Val Asp Cys Ala Asp His Ser Arg Leu Val
 100 105 110
 Glu Ser Lys Val Glu Leu Asn Ala Leu Met Thr Asp Glu Thr Ile Ser
 115 120 125
 Asn Val Pro Ile Leu Ile Leu Gly Asn Lys Ile Asp Arg Thr Asp Ala
 130 135 140
 Ile Ser Glu Glu Lys Leu Arg Glu Ile Phe Gly Leu Tyr Gly Gln Thr
 145 150 155 160
 Thr Gly Lys Gly Asn Val Thr Leu Lys Glu Leu Asn Ala Arg Pro Met
 165 170 175
 Glu Val Phe Met Cys Ser Val Leu Lys Arg Gln Gly Tyr Gly Glu Gly
 180 185 190
 Phe Arg Trp Leu Ser Gln Tyr Ile Asp
 195 200

<210> 5047

<211> 304

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5047

Lys Glu Gly Ile Leu Phe Val Thr Tyr Pro Asp Gly Arg Pro Thr Gly
 1 5 10 15
 Asp Ala Phe Val Leu Phe Ala Cys Glu Glu Tyr Ala Gln Asn Ala Leu
 20 25 30
 Arg Lys His Lys Asp Leu Leu Gly Lys Arg Tyr Ile Glu Leu Phe Arg

4546

35	40	45																	
Ser	Thr	Ala	Ala	Glu	Val	Gln	Gln	Val	Leu	Asn	Arg	Phe	Ser	Ser	Ala				
50						55					60								
Pro	Leu	Ile	Pro	Leu	Pro	Thr	Pro	Pro	Ile	Ile	Pro	Val	Leu	Pro	Gln				
65					70					75					80				
Gln	Phe	Val	Pro	Pro	Thr	Asn	Val	Arg	Asp	Cys	Ile	Arg	Leu	Arg	Gly				
				85					90					95					
Leu	Pro	Tyr	Ala	Ala	Thr	Ile	Glu	Asp	Ile	Leu	Asp	Phe	Leu	Gly	Glu				
			100					105					110						
Phe	Ala	Thr	Asp	Ile	Arg	Thr	His	Gly	Val	His	Met	Val	Leu	Asn	His				
		115					120					125							
Gln	Gly	Arg	Pro	Ser	Gly	Asp	Ala	Phe	Ile	Gln	Met	Lys	Ser	Ala	Asp				
	130					135					140								
Arg	Ala	Phe	Met	Ala	Ala	Gln	Lys	Cys	His	Lys	Lys	Asn	Met	Lys	Asp				
145				150						155					160				
Arg	Tyr	Val	Glu	Val	Phe	Gln	Cys	Ser	Ala	Glu	Glu	Met	Asn	Phe	Val				
				165					170					175					
Leu	Met	Gly	Gly	Thr	Leu	Asn	Arg	Asn	Gly	Leu	Ser	Pro	Pro	Pro	Cys				
			180					185					190						
Leu	Ser	Pro	Pro	Ser	Tyr	Thr	Phe	Pro	Ala	Pro	Ala	Ala	Xaa	Ile	Pro				
		195					200					205							
Thr	Glu	Ala	Ala	Ile	Tyr	Gln	Pro	Ser	Val	Ile	Leu	Asn	Pro	Arg	Ala				
	210					215					220								
Leu	Gln	Pro	Ser	Thr	Ala	Tyr	Tyr	Pro	Ala	Gly	Thr	Gln	Leu	Phe	Met				
225					230					235					240				
Asn	Tyr	Thr	Ala	Tyr	Tyr	Pro	Ser	Pro	Pro	Gly	Ser	Pro	Asn	Ser	Leu				
			245						250				255						
Gly	Tyr	Phe	Pro	Thr	Ala	Ala	Asn	Leu	Ser	Gly	Val	Pro	Pro	Gln	Pro				
			260					265					270						
Gly	Thr	Val	Val	Arg	Met	Gln	Gly	Leu	Ala	Tyr	Asn	Thr	Gly	Val	Lys				
	275					280					285								
Glu	Ile	Leu	Asn	Phe	Phe	Gln	Gly	Tyr	Gln	Cys	Leu	Lys	Asp	Val	Trp				
290						295					300								

4547

<210> 5048

<211> 254

<212> PRT

<213> Homo sapiens

<400> 5048

```

Trp Cys Ile Phe Asp Tyr Met Ala Val Tyr Arg Met Cys Cys Pro Tyr
 1             5             10             15

Thr Arg Arg Ala Ser Lys Ser Ser Arg Pro Met Tyr Gly Ala Val Thr
          20             25             30

Ser Phe Leu His Ser Leu Ile Ile Gln Asn Glu Pro Arg Phe Ala Met
          35             40             45

Phe Gly Pro Gly Leu Glu Glu Leu Asn Thr Ser Leu Val Leu Ser Leu
          50             55             60

Met Ser Ser Glu Glu Leu Cys Pro Thr Ala Gly Leu Pro Gln Arg Gln
 65             70             75             80

Ile Asp Gly Ile Gly Ser Gly Val Asn Phe Gln Leu Asn Asn Gln His
          85             90             95

Lys Phe Asn Ile Leu Ile Leu Tyr Ser Thr Thr Arg Lys Glu Arg Asp
          100            105            110

Arg Ala Arg Glu Glu His Thr Ser Ala Val Asn Lys Met Phe Ser Arg
          115            120            125

His Asn Glu Gly Asp Asp Gln Gln Gly Ser Arg Tyr Ser Val Ile Pro
          130            135            140

Gln Ile Gln Lys Val Cys Glu Val Val Asp Gly Phe Ile Tyr Val Ala
          145            150            155            160

Asn Ala Glu Ala His Lys Arg His Glu Trp Gln Asp Glu Phe Ser His
          165            170            175

Ile Met Ala Met Thr Asp Pro Ala Phe Gly Ser Ser Gly Arg Pro Leu
          180            185            190

Leu Val Leu Ser Cys Ile Ser Gln Gly Asp Val Lys Arg Met Pro Cys
          195            200            205

Phe Tyr Leu Ala His Glu Leu His Leu Asn Leu Leu Asn His Pro Trp
          210            215            220

```

4548

Leu Val Gln Asp Thr Glu Ala Glu Thr Leu Thr Gly Phe Leu Asn Gly
 225 230 235 240

Ile Glu Trp Ile Leu Glu Glu Val Glu Ser Lys Arg Ala Arg
 245 250

<210> 5049

<211> 45

<212> PRT

<213> Homo sapiens

<400> 5049

Phe Leu Ile Val His Lys Pro Leu Thr Lys Glu Ser Glu Ile Ser Pro
 1 5 10 15

Ser Val Lys Arg Lys Gln Ala Met Lys Cys Tyr Ile Cys Arg Leu Lys
 20 25 30

Ser Lys Leu Val Cys Phe Leu Lys Asn Leu Asn Gln Asp
 35 40 45

<210> 5050

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5050

Ser Cys Val Ser Ala Val Asp Thr Asn Ile Lys Cys Leu Val His Leu
 1 5 10 15

Lys Ser Leu Ser Leu Pro Tyr Met Gly Glu Thr Gln Ser Pro Ser Leu
 20 25 30

Cys Trp Lys Tyr His Gln Thr Asp Cys Lys Cys Ala Ala Val Ala Asp
 35 40 45

Ile Leu Val Trp Trp Cys Ala Ala Ile Ser Ala Leu His Leu Pro Xaa
 50 55 60

Trp Leu Pro Tyr Ser Cys Val Pro Ile Phe Ala Ser Met Leu Gly Val
 65 70 75 80

4549

Pro His Leu Leu His Phe Pro Ala Cys Asn Gln Glu Leu Thr
85 90

```
<210> 5051
<211> 200
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (198)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (200)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 5051
Val Gly Pro Gly Ala Ala Trp Arg Arg Pro His Ser Gly Ile Met Ala
  1               5               10              15
```

Gln Val Ala Met Ser Thr Leu Pro Val Glu Asp Glu Glu Ser Ser Glu
20 25 30

Ser Arg Met Val Val Thr Phe Leu Met Ser Ala Leu Glu Ser Met Cys
35 40 45

Lys Glu Leu Ala Lys Ser Lys Ala Glu Val Ala Cys Ile Ala Val Tyr
50 55 60

Glu Thr Asp Val Phe Val Val Gly Thr Glu Arg Gly Arg Ala Phe Val
65 70 75 80

Asn Thr Arg Lys Asp Phe Gln Lys Asp Phe Val Lys Tyr Cys Val Glu
85 90 95

Glu Glu Glu Lys Ala Ala Glu Met His Lys Met Lys Ser Thr Thr Gln
100 105 110

Ala Asn Arg Met Ser Val Asp Ala Val Glu Ile Glu Thr Leu Arg Lys
115 120 125

Thr Val Glu Asp Tyr Phe Cys Phe Cys Tyr Gly Lys Ala Leu Gly Lys
130 135 140

Ser Thr Val Val Pro Val Pro Tyr Glu Lys Met Leu Arg Asp Gln Ser
145 150 155 160

4550

Ala Val Val Val Gln Gly Leu Pro Glu Gly Val Ala Phe Lys His Pro
 165 170 175

Glu Asn Tyr Asp Leu Ala Thr Leu Lys Trp Ile Leu Glu Asn Lys Ala
 180 185 190

Gly Ile Ser Phe Ile Xaa Lys Xaa
 195 200

<210> 5052

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (160)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5052

Arg Glu Ile Glu Arg Lys Arg Gln Arg Glu Glu Glu Arg Arg Lys Trp
 1 5 10 15

Lys Glu Glu Glu Lys Arg Lys Arg Lys Asp Ile Glu Lys Leu Lys Lys
 20 25 30

Ile Asp Arg Ile Pro Glu Arg Asp Lys Leu Lys Asp Glu Pro Lys Ile
 35 40 45

Lys Leu Leu Lys Lys Pro Glu Lys Gly Asp Glu Lys Glu Leu Asp Lys
 50 55 60

Arg Glu Lys Ala Lys Lys Leu Asp Lys Glu Asn Leu Ser Asp Glu Arg

4551

65				70				75				80			
Ala	Ser	Gly	Gln	Ser	Cys	Thr	Leu	Pro	Lys	Arg	Ser	Asp	Ser	Glu	Leu
				85					90					95	
Lys	Asp	Glu	Lys	Pro	Lys	Arg	Pro	Glu	Asp	Glu	Ser	Gly	Arg	Asp	Xaa
			100					105					110		
Arg	Glu	Arg	Glu	Arg	Glu	Tyr	Glu	Arg	Asp	Gln	Glu	Arg	Ile	Leu	Arg
			115				120						125		
Glu	Arg	Glu	Arg	Leu	Lys	Arg	Gln	Glu	Glu	Glu	Arg	Arg	Arg	Xaa	Arg
			130			135					140				
Ser	Ala	Met	Arg	Lys	Arg	Arg	Leu	Leu	Arg	Xaa	Lys	Lys	Lys	Lys	Xaa
145					150					155					160
Lys	Lys	Arg	Lys	Thr	His	Phe	Gly	Ile	Lys	Glu	Arg	Arg	Leu	Lys	Val
				165					170					175	
Gln	Asn	Gln													

<210> 5053

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5053

Gln Asp Gly Leu Asn Ser Leu Val Leu Asp Leu Asp Phe Pro Ala Leu
1 5 10 15

Arg Lys Asn Lys Asn Ile Asp Asn Phe Leu Asn Arg Tyr Glu Lys Ile
20 25 30

Val Lys Lys Ile Arg Gly Leu Gln Met Lys Ala Glu Asp Tyr Asp Val
35 40 45

Val Lys Val Ile Gly Arg Gly Xaa Phe Gly Glu Val Gln Leu Val Val
50 55 60

Thr Arg His Arg Arg Arg Phe Met Leu
65 70

4552

<210> 5054

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5054

Pro	Cys	Ala	Ile	Ile	Phe	Phe	His	His	Phe	Ser	Gly	Xaa	Leu	Glu	Gly
1				5					10					15	

Gly	Gly	Asp	Pro	Gly	Asp	Leu	Ser	Thr	Leu	Phe	Ser	Gln	Lys	Ala	Gly
			20					25					30		

Trp	Phe	Phe	Ser	Leu	Phe	Ser	Cys	Asp	Ser	Tyr	Leu	Glu	Ser	Gly	Leu
		35					40					45			

Asn	Val	Asn	Ile	Leu	Val	Leu	Val	Val	Gln	Leu	Arg
	50					55					60

<210> 5055

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

4553

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5055

Gly	Arg	Val	Glu	Lys	Ser	Leu	Met	Thr	Leu	Lys	Ile	Ser	Ala	Trp	Leu
1				5					10					15	

Leu	Thr	Lys	Ile	Gly	Asn	Xaa	Xaa	Xaa	Gly	Xaa	Arg	Phe	Gly	Lys	Arg
			20					25					30		

Arg	Glu	Arg	Ile	Met	Lys	Phe	Asp	Phe	Tyr	Ile	Glu	Met	Lys	Gly	Pro
		35					40					45			

Phe	Gln	Ile	Trp	Lys	Ser	Phe	Gly	Leu	Asn	Asn	Xaa	Xaa	Ile	Phe	Asp
	50					55					60				

Leu	Glu	Asn	Xaa	Gly	Xaa	Lys	Pro
65						70	

<210> 5056

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5056

Leu	Lys	Cys	Phe	Glu	Thr	Val	Val	Asp	Gly	Tyr	Glu	Glu	Leu	Leu	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4554

1 5 10 15
 Leu Leu Pro Cys Arg Thr Pro Glu Ser Lys Met Ile His Gln Gln Leu
 20 25 30
 Tyr Trp Ser His Pro Arg Lys Val Ser Gln Gly Ser Cys Tyr Xaa Val
 35 40 45
 Cys

<210> 5057

<211> 104

<212> PRT

<213> Homo sapiens

<400> 5057

Arg Ile Gln Glu Tyr Phe Leu Leu Gly Trp Ala Leu Asn Lys Ala Lys
 1 5 10 15
 Asn Cys Arg Asn Gln Ser Arg Lys Ser Pro Ala His Leu Trp Pro Leu
 20 25 30
 Pro Ser Ser Arg Pro Pro Pro Cys Arg Lys Asn Leu Ala Phe Gly Leu
 35 40 45
 Ser Leu Ser His Arg Gly His Leu Leu Phe Pro Ser Asp Ile Gln Pro
 50 55 60
 Tyr Arg Arg Ser Leu Asp Ser Asp Pro Ser Val Gln Ala Gly Trp Lys
 65 70 75 80
 Gly Pro Ser Thr Leu Pro Gly Arg Ser Glu Thr Asn Cys Phe Arg Glu
 85 90 95
 Ser Asp Gly Leu Pro Lys Thr Cys
 100

<210> 5058

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

4555

<400> 5058

```

Pro Thr Arg Pro Arg Thr Arg Gly Leu Lys Met Pro Leu Thr Phe Ile
 1             5             10             15

Leu Leu Pro Ser Gly Lys Gly Asn Leu Val Phe Ser Ile Thr Ser Thr
          20             25             30

Lys Ile Leu Leu Xaa Ser Thr His Tyr Pro Ile Pro Lys Pro Phe Ser
          35             40             45

His Phe Lys Thr Phe Val Thr Glu Val Pro Asn Pro Ser Gln Phe His
          50             55             60

Asn Leu His
 65

```

<210> 5059

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5059

```

Thr Lys Leu His Phe Gln Gly Gln Gly Leu Gly Asn Xaa Leu Ile Val
 1             5             10             15

Lys Ser Cys Asn Thr Ser Val Gln Val Asn Ile Ser Gly Pro Cys Phe
          20             25             30

Pro Ser Gln Cys Met His Glu Leu Phe Phe Met His His Trp Gly Ala
          35             40             45

Gln Ser Trp Xaa Asn Leu Pro Val Gly Ile Leu Gly Xaa Thr Trp Ala
          50             55             60

```

4556

Cys Leu
65

<210> 5060

<211> 47

<212> PRT

<213> Homo sapiens

<400> 5060

Lys Cys Lys Cys Ala Gly Arg Lys Gly Thr Asp Asp Ser Val Thr Leu
1 5 10 15

Gln Leu Gln Lys Leu Arg Val Gly Asp Tyr Leu Asp Ile Ala Ile Thr
20 25 30

Pro Leu Asn Gln Val Pro Pro Pro Ser Gly His Met Arg Ser Tyr
35 40 45

<210> 5061

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5061

Phe Gly Thr Ser Gly Thr Ser Cys Cys Leu Gly Trp Thr Trp Phe Cys
1 5 10 15

Leu Leu Arg Pro Leu Phe Ala Leu Ser Phe His Phe Leu Gln Arg Ala
20 25 30

Xaa Arg Met Ala His Lys Gln Ile Tyr Tyr Ser Asp Lys Tyr Phe Asp
35 40 45

Glu His Tyr Glu Tyr Arg His Val Met Leu Pro Arg Glu Leu Ser Lys
50 55 60

Gln Val Pro Lys Thr His Leu Met Ser Glu Glu Glu Trp Arg Arg Leu
65 70 75 80

Gly Val Gln Gln Ser Leu Gly Trp Val His Tyr Met Ile His Glu Pro
85 90 95

4557

Glu Pro His Ile Leu Leu Phe Arg Arg Pro Leu Pro Lys Asp Gln Gln
 100 105 110

Lys

<210> 5062

<211> 287

<212> PRT

<213> Homo sapiens

<400> 5062

Ser Gly Ser Ala Phe Leu Arg Cys Pro Pro Pro Pro Val Arg Arg Ser
 1 5 10 15

Glu Lys Pro Asn Trp Asp Tyr His Ala Glu Ile Gln Ala Phe Gly His
 20 25 30

Arg Leu Gln Glu Asn Phe Ser Leu Asp Leu Leu Lys Thr Ala Phe Val
 35 40 45

Asn Ser Cys Tyr Ile Lys Ser Glu Glu Ala Lys Arg Gln Gln Leu Gly
 50 55 60

Ile Glu Lys Glu Ala Val Leu Leu Asn Leu Lys Ser Asn Gln Glu Leu
 65 70 75 80

Ser Glu Gln Gly Thr Ser Phe Ser Gln Thr Cys Leu Thr Gln Phe Leu
 85 90 95

Glu Asp Glu Tyr Pro Asp Met Pro Thr Glu Gly Ile Lys Asn Leu Val
 100 105 110

Asp Phe Leu Thr Gly Glu Glu Val Val Cys His Val Ala Arg Asn Leu
 115 120 125

Ala Val Glu Gln Leu Thr Leu Ser Glu Glu Phe Pro Val Pro Pro Ala
 130 135 140

Val Leu Gln Gln Thr Phe Phe Ala Val Ile Gly Ala Leu Leu Gln Ser
 145 150 155 160

Ser Gly Pro Glu Arg Thr Ala Leu Phe Ile Arg Asp Phe Leu Ile Thr
 165 170 175

Gln Met Thr Gly Lys Glu Leu Phe Glu Met Trp Lys Ile Ile Asn Pro
 180 185 190

4558

Met Gly Leu Leu Val Glu Glu Leu Lys Lys Arg Asn Val Ser Ala Pro
 195 200 205

Glu Ser Arg Leu Thr Arg Gln Ser Gly Gly Thr Thr Ala Leu Pro Leu
 210 215 220

Tyr Phe Val Gly Leu Tyr Cys Asp Lys Lys Leu Ile Ala Glu Gly Pro
 225 230 235 240

Gly Glu Thr Val Leu Val Ala Glu Glu Glu Ala Ala Arg Val Ala Leu
 245 250 255

Arg Lys Leu Tyr Gly Phe Thr Glu Asn Arg Arg Pro Trp Asn Tyr Ser
 260 265 270

Lys Pro Lys Glu Thr Leu Arg Ala Glu Lys Ser Ile Thr Ala Ser
 275 280 285

<210> 5063
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 5063
 Ile Leu Thr Glu Phe Leu Glu Met Ile Val Asn Cys Leu Gln Ile Ile
 1 5 10 15

Glu Lys Cys Ile Tyr Leu Cys Val Cys Val Cys Gln Lys Cys Asn Cys
 20 25 30

Phe Ile Ile Phe Phe Pro Tyr Leu Tyr Ile Leu Phe Asn Thr Trp Phe
 35 40 45

Ile Ser Thr Val His Cys Phe Leu Cys Pro Lys Leu Thr
 50 55 60

<210> 5064
 <211> 130
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>

4559

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5064

Glu	Asp	Pro	Phe	Thr	Ile	Leu	Thr	Lys	Glu	Ile	Phe	Phe	Phe	Thr	Val
1				5					10					15	

Glu	Leu	Val	Cys	Glu	Asn	Lys	Glu	Leu	Cys	Ser	Ser	Pro	Arg	Trp	Arg
			20					25					30		

Asn	Ala	Ile	Gln	Lys	Ser	Asn	Phe	Ser	Lys	Val	Thr	Ser	Phe	Phe	Met
		35					40					45			

Ser	Cys	His	His	Phe	Lys	Gly	Leu	Ala	Pro	Leu	Pro	His	Val	Tyr	Thr
	50					55					60				

Gln	Gly	Asn	Cys	Arg	Pro	Ile	Ser	Cys	Leu	Gly	Leu	Thr	Leu	Met	Pro
65					70					75					80

Phe	Ala	Ser	Ser	Phe	Pro	Glu	Val	Lys	Val	Pro	Val	Met	Tyr	Ser	His
				85					90					95	

Arg	Asn	Ile	Phe	Gln	Leu	Phe	Met	Ser	Phe	Thr	Thr	Lys	Lys	Lys	Xaa
			100					105					110		

Gln	Ser	Gly	Met	Gly	Val	Gln	Leu	Leu	Xaa	Xaa	Phe	Leu	Val	Arg	Ile
		115					120					125			

Phe	Tyr
	130

<210> 5065

<211> 342

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5065

Ile	Arg	His	Glu	Gly	Leu	Gly	Arg	Met	Lys	Pro	Asn	Thr	Leu	Val	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4560

1	5	10	15
Gly Phe Xaa Lys Asp Trp Leu Gln Ala Asp Met Arg Asp Val Asp Met	20	25	30
Tyr Ile Asn Leu Phe His Asp Ala Phe Asp Ile Gln Tyr Gly Val Val	35	40	45
Val Ile Arg Leu Lys Glu Gly Leu Asp Ile Ser His Leu Gln Gly Gln	50	55	60
Glu Glu Leu Leu Ser Ser Gln Glu Lys Ser Pro Gly Thr Lys Asp Val	65	70	75
Val Val Ser Val Glu Tyr Ser Lys Lys Ser Asp Leu Asp Thr Ser Lys	85	90	95
Pro Leu Ser Glu Lys Pro Ile Thr His Lys Val Glu Glu Glu Asp Gly	100	105	110
Lys Thr Ala Thr Gln Pro Leu Leu Lys Lys Glu Ser Lys Gly Pro Ile	115	120	125
Val Pro Leu Asn Val Ala Asp Gln Lys Leu Leu Glu Ala Ser Thr Gln	130	135	140
Phe Gln Lys Lys Gln Gly Lys Asn Thr Ile Asp Val Trp Trp Leu Phe	145	150	155
Asp Asp Gly Gly Leu Thr Leu Leu Ile Pro Tyr Leu Leu Thr Thr Lys	165	170	175
Lys Lys Trp Lys Asp Cys Lys Ile Arg Val Phe Ile Gly Gly Lys Ile	180	185	190
Asn Arg Ile Asp His Asp Arg Arg Ala Met Ala Thr Leu Leu Ser Lys	195	200	205
Phe Arg Ile Asp Phe Ser Asp Ile Met Val Leu Gly Asp Ile Asn Thr	210	215	220
Lys Pro Lys Lys Glu Asn Ile Ile Ala Phe Glu Glu Ile Ile Glu Pro	225	230	235
Tyr Arg Leu His Glu Asp Asp Lys Glu Gln Asp Ile Ala Asp Lys Met	245	250	255
Lys Glu Asp Glu Pro Trp Arg Ile Thr Asp Asn Glu Leu Glu Leu Tyr	260	265	270
Lys Thr Lys Thr Tyr Arg Gln Ile Arg Leu Asn Glu Leu Leu Lys Glu			

4561

275 280 285
 His Ser Ser Thr Ala Asn Ile Ile Val Met Ser Leu Pro Val Ala Arg
 290 295 300
 Lys Gly Ala Val Ser Ser Ala Leu Tyr Met Ala Trp Leu Glu Ala Leu
 305 310 315 320
 Ser Lys Asp Leu Pro Pro Ile Leu Leu Val Arg Gly Asn His Gln Ser
 325 330 335
 Val Leu Thr Phe Tyr Ser
 340

<210> 5066
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 5066
 Gln His Arg Asp Lys Met Gln Gln Ser Lys Asn Gln Val Val Ser Ser
 1 5 10 15
 Thr Asn Gly Glu Leu Asn Thr Asp Asp Pro Thr Ala Gly Arg Ser Asn
 20 25 30
 Ala Pro Ile Thr Ala Pro Thr Glu Val Glu Val Met Asp Glu Thr Lys
 35 40 45
 Cys Cys Cys Phe Phe Lys Arg Arg Lys Arg Lys Thr Ile Gln Arg His
 50 55 60
 Lys
 65

<210> 5067
 <211> 78
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE

4562

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5067

Ile	Arg	His	Glu	Glu	Leu	Asp	Lys	Leu	Leu	Ser	Ser	Phe	Lys	Ser	Leu
1				5				10						15	
Leu	Glu	Glu	Lys	Glu	Gln	Ala	Glu	Ile	Gln	Ile	Lys	Glu	Glu	Ser	Lys
			20					25						30	
Thr	Ala	Val	Glu	Met	Leu	Gln	Asn	Gln	Leu	Lys	Glu	Leu	Asn	Glu	Ala
			35					40						45	
Val	Ala	Ala	Xaa	Cys	Gly	Asp	Gln	Glu	Ile	Met	Lys	Ala	Thr	Xaa	Xaa
			50				55					60			
Ser	Leu	Asp	Pro	Pro	Ile	Glu	Glu	Arg	Ala	Ser	Ser	Glu	Lys		
			65			70				75					

<210> 5068

<211> 192

<212> PRT

<213> Homo sapiens

<400> 5068

Glu	Cys	Arg	Leu	Glu	Gly	Ser	Met	Glu	Val	His	Gly	Lys	Pro	Lys	Ala
1				5				10						15	
Ser	Pro	Ser	Cys	Ser	Ser	Pro	Thr	Arg	Asp	Ser	Ser	Gly	Val	Pro	Val
			20					25					30		
Ser	Lys	Glu	Leu	Leu	Thr	Ala	Gly	Ser	Asp	Gly	Arg	Gly	Gly	Ile	Trp
			35				40					45			
Asp	Arg	Leu	Leu	Ile	Asn	Ser	Gln	Pro	Lys	Ser	Arg	Lys	Thr	Ser	Thr
			50				55					60			
Leu	Gln	Thr	Val	Arg	Ile	Glu	Arg	Ser	Pro	Leu	Leu	Asp	Gln	Val	Gln
			65			70				75					80
Thr	Phe	Leu	Pro	Gln	Met	Ala	Arg	Ala	Asn	Glu	Lys	Leu	Arg	Lys	Glu
				85					90					95	
Met	Ala	Ala	Ala	Pro	Pro	Gly	Arg	Phe	Asn	Ile	Glu	Asn	Ile	Asp	Gly

4563

100	105	110
Pro His Ser Lys Val Ile Gln Met Asp Val Ala Leu Phe Glu Met Asn		
115	120	125
Gln Ser Asp Ser Lys Glu Val Asp Ser Ser Glu Glu Ser Ser Gln Asp		
130	135	140
Ser Ser Glu Asn Ser Ser Glu Ser Glu Asp Glu Asp Asp Ser Ile Pro		
145	150	155
Ser Glu Val Thr Ile Asp Asn Ile Lys Leu Pro Asn Ser Glu Gly Gly		
165	170	175
Lys Gly Lys Ile Glu Val Leu Asp Ser Pro Ala Ser Lys Lys Lys Lys		
180	185	190

<210> 5069

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5069

Leu Thr Ser Val Asn Ser Ser Pro Thr Arg Leu Met Thr Thr Phe Ile
1 5 10 15

Leu His Glu Xaa Ile Val Phe Val Ser Thr Val Phe Tyr Tyr Phe Arg
20 25 30

Ala Ser Leu Arg His Thr Ile
35

<210> 5070

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4564

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5070

Gly	Ser	Gly	Ala	Glu	Ala	Xaa	Asp	Lys	Lys	Pro	Arg	Asp	Leu	Phe	Gly
1				5				10					15		

Pro	Pro	Gly	Pro	Pro	Xaa	Ala	Glu	Val	Thr	Ala	Glu	Thr	Leu	Leu	His
			20					25					30		

Glu	Phe	Gln	Glu	Leu	Leu	Lys	Glu	Ala	Thr	Glu	Arg	Arg	Phe	Ser	Gly
		35					40					45			

Leu	Leu	Asp	Pro	Leu	Leu	Pro	Gln	Gly	Ala	Gly	Leu	Arg	Leu	Val	Gly
		50				55					60				

Glu	Ala	Phe	His	Cys	Arg	Leu	Gln	Gly	Pro	Arg	Arg	Val	Asp	Lys	Arg
65						70				75					80

Thr	Leu	Val	Glu	Leu	His	Gly	Phe	Gln	Ala	Pro	Ala	Ala	Gln	Gly	Ala
				85					90					95	

Phe	Leu	Arg	Gly	Ser	Gly	Leu	Ser	Leu	Ala	Ser	Gly	Arg	Phe	Thr	Ala
			100					105					110		

Pro	Val	Ser	Gly	Ile	Phe	Gln	Phe	Xaa	Ala	Xaa	Leu	Xaa	Val	Gly	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4565

115 120 125
 Gly Trp Gly Ser Ala Val Cys Cys Asp Gly Ala Gly Ala Xaa Leu Ser
 130 135 140

 Gly Gly
 145

 <210> 5071
 <211> 126
 <212> PRT
 <213> Homo sapiens

 <400> 5071
 Glu Arg Ser His Leu Gln Pro Gly Ala Val Gly Ile Thr Glu Ser Pro
 1 5 10 15

 Ile Leu Gly Leu Gly Ser Ala Met Thr Thr Glu Ile Gly Trp Trp Lys
 20 25 30

 Leu Thr Phe Leu Arg Lys Lys Lys Ser Thr Pro Lys Val Leu Tyr Glu
 35 40 45

 Ile Pro Asp Thr Tyr Ala Gln Thr Glu Gly Asp Ala Glu Pro Pro Arg
 50 55 60

 Pro Asp Ala Gly Gly Pro Asn Ser Asp Phe Asn Thr Arg Leu Glu Lys
 65 70 75 80

 Ile Val Asp Lys Ser Thr Lys Gly Lys His Val Lys Val Ser Asn Ser
 85 90 95

 Gly Arg Phe Lys Glu Lys Lys Lys Val Arg Ala Thr Leu Ala Glu Asn
 100 105 110

 Pro Asn Leu Phe Asp Asp His Glu Glu Gly Arg Ser Ser Lys
 115 120 125

<210> 5072
 <211> 205
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

4566

<220>

<221> SITE

<222> (190)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5072

Tyr	Cys	Ser	Leu	Lys	Thr	Pro	Leu	Ser	Glu	Asn	Asp	Met	Pro	Ser	Gln
1				5					10					15	

Cys	Asn	Ser	Glu	Leu	Val	Arg	Gly	Pro	Leu	Ala	Ala	Pro	Gly	Gly	Gly
			20					25					30		

Glu	Arg	Tyr	Ser	Arg	Ser	Ala	Gly	Met	Tyr	Met	Gln	Ser	Gly	Ser	Asp
		35					40					45			

Phe	Asn	Cys	Gly	Val	Xaa	Arg	Gly	Cys	Gly	Leu	Ala	Pro	Ser	Leu	Ser
	50					55					60				

Lys	Arg	Asp	Glu	Gly	Ser	Ser	Pro	Ser	Leu	Ala	Leu	Asn	Thr	Tyr	Pro
65					70					75					80

Ser	Tyr	Leu	Ser	Gln	Leu	Asp	Ser	Trp	Gly	Asp	Pro	Lys	Ala	Ala	Tyr
				85					90					95	

Arg	Leu	Glu	Gln	Pro	Val	Gly	Arg	Pro	Leu	Ser	Ser	Cys	Ser	Tyr	Pro
			100					105					110		

Pro	Ser	Val	Lys	Glu	Glu	Asn	Val	Cys	Cys	Met	Tyr	Ser	Ala	Glu	Lys
		115					120					125			

Arg	Ala	Lys	Ser	Gly	Pro	Glu	Ala	Ala	Leu	Tyr	Ser	His	Pro	Leu	Pro
	130					135					140				

Glu	Ser	Cys	Leu	Gly	Glu	His	Glu	Val	Pro	Val	Pro	Ser	Tyr	Tyr	Arg
145					150					155					160

Ala	Ser	Arg	Ala	Thr	Pro	Arg	Trp	Thr	Arg	Arg	Pro	Thr	Val	Leu	Gly
				165					170					175	

Pro	Thr	Thr	Ser	Lys	Pro	Leu	Ser	Ser	Ser	Gly	Pro	Val	Xaa	Thr	Arg
			180					185					190		

Ala	Pro	Asn	Ile	Trp	Asn	Arg	Leu	Ser	Trp	Gly	Ala	Lys
		195					200					205

<210> 5073

<211> 84

<212> PRT

4567

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5073

Val	Ser	Ser	Asn	Pro	Asp	Lys	Ser	Arg	Cys	Leu	Gly	Val	Arg	His	Ile
1				5					10					15	

Gln	Asp	Ile	Gly	Leu	Trp	Leu	Gln	Asn	Arg	Asn	Leu	Gly	Gly	Leu	Gln
			20					25					30		

Leu	Val	Leu	Gly	Arg	Leu	Leu	Leu	Leu	Arg	Leu	Leu	Leu	Ile	Ile	Leu
		35					40					45			

Leu	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Asn	Arg	Gln	Xaa	Asn	Gln	Xaa
		50				55					60				

Val	His	Xaa	Val	His	His	Gln	Ser	Pro	Gly	Pro	Cys	Gly	Xaa	Glu	Val
65					70					75				80	

Leu Xaa Thr Asn

<210> 5074

<211> 61

<212> PRT

4568

<213> Homo sapiens

<400> 5074

Gly Arg Ala Lys Glu Arg Lys Val Asn Lys Lys Lys Gln Gln Gln Gln
 1 5 10 15
 Gln Pro Pro Gln Pro Pro Met Ala His Asp Ile Thr Ala Thr Pro Ala
 20 25 30
 Gly Pro Ser Leu Gly Gly Leu Cys Pro Ser Asn Thr Ser Leu Leu Ala
 35 40 45
 Thr Ser Ser Pro Met Pro Val Lys Glu Glu Phe Leu Pro
 50 55 60

<210> 5075

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5075

Phe His His Val Ala Gln Ala Gly Leu Asp Leu Pro Thr Ser Ser Asp
 1 5 10 15
 Leu Pro Ala Pro Thr Ser Gln Ser Ala Gly Ile Thr Gly Leu Ser His
 20 25 30
 Arg Ala Arg Pro Val Leu Phe Val Phe Val Glu Arg Trp Gly Phe Ala
 35 40 45
 Met Leu Pro Arg Leu Ile Ser Asn Ser
 50 55

<210> 5076

<211> 218

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

4569

<400> 5076

Glu Val Leu Pro Gly Pro Gly Ser Thr Arg Val Trp Pro Gly Pro Ser
 1 5 10 15
 Val Ser Pro Arg Pro Gln Gly Gly Ala Leu Ser Thr Gln Lys Gly Pro
 20 25 30
 Lys Ala Gly His Gly Gly Ala Glu Glu Phe Gly Arg Cys Lys Gln Pro
 35 40 45
 His Ala Arg Gly Gly Gly Asp Cys Phe Ser Xaa Arg Pro His Ala Ser
 50 55 60
 Thr Phe His Xaa Ala Cys Pro Leu Leu Met Cys Ser Ser Gln Cys Leu
 65 70 75 80
 Cys Glu Pro Thr Ser Ala Gln Ser Tyr Pro Ser Ser Ala Cys Gly Asp
 85 90 95
 Pro Ala Pro Ala Ala Leu Leu Leu Pro Arg Pro Gln Thr Ala Trp Trp
 100 105 110
 Arg Val Leu His Leu Gly Gln Ala Gly Val His Pro Ala Lys Asp Lys
 115 120 125
 Ala Ala Ser Thr Cys Pro Arg Ile Gln Met Val His Trp Pro Arg Glu
 130 135 140
 Glu Ser Asp Gln Lys Trp Ser Pro Leu Cys Gly Glu Ala Pro Thr Pro
 145 150 155 160
 Pro Arg Glu Thr Val Pro Arg Cys Gly Ser Pro Pro Ser Leu Val Gly
 165 170 175
 His Ser Trp Pro Gly Pro Pro Ile Leu Arg Ser Phe Pro Gly Cys Gly
 180 185 190
 Phe Asp Leu Arg Ser Gly Ser Gly Leu Ala Ser Gly Val Trp Pro Gly
 195 200 205
 Pro Ala Cys Cys Ser Leu Leu Gly Gly Pro
 210 215

<210> 5077

<211> 59

<212> PRT

<213> Homo sapiens

4570

<400> 5077

Gly Ser Ser Thr Ile Lys Ala Tyr Leu Ile Asn Asn Tyr Phe Cys Lys
1 5 10 15

Gln Val Gly Leu Thr Tyr Ser Ser Ser Phe Cys Leu Asp Met Asn Leu
20 25 30

Arg Ser Ser Cys Leu Lys Thr Phe Thr Leu Leu Phe Ser Asp Thr Phe
35 40 45

Pro Ser Tyr Phe Phe Phe Phe Phe Gly Cys Cys
50 55

<210> 5078

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4571

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5078

Phe	Ile	Leu	Glu	Leu	Gln	Met	Gln	Ser	Ile	Xaa	Glu	Lys	Lys	Met	Lys
1				5					10					15	

Xaa	Xaa	Arg	Asn	Ile	Ala	Xaa	His	Xaa	Xaa	Asn	Xaa	Pro	Ser	Leu	Ile
			20					25					30		

Thr	Phe	Leu	Cys	Lys	Asn	Cys	Ser	Val	Leu	Ala	Cys	Ser	Gly	Glu	Asp
		35					40					45			

Ile	His	Val	Ile	Glu	Lys	Met	His	His	Val	Asn	Met	Thr	Pro	Glu	Phe
	50					55					60				

Lys	Glu	Leu	Tyr	Ile	Val	Arg	Glu	Asn	Lys	Xaa	Leu	Gln	Lys	Lys	Cys
65					70					75					80

Ala	Asp	Tyr	Gln	Ile	Asn	Gly	Glu	Ile	Ile	Cys	Lys	Cys	Gly	Gln	Ala
				85					90					95	

Trp	Gly	Thr	Met	Met	Val	His	Lys	Gly	Leu	Asp	Leu	Pro	Cys	Leu	Lys
			100					105					110		

Ile	Arg	Asn	Phe	Val	Val	Val	Phe	Lys	Asn	Asn	Ser	Thr	Lys	Lys	Gln
		115					120					125			

Tyr	Lys	Lys	Trp	Val	Glu	Leu	Pro	Ile	Thr	Phe	Pro	Asn	Leu	Asp	Tyr
	130					135					140				

Ser	Glu	Cys	Cys	Leu	Phe	Ser	Asp	Glu	Asp
145					150				

<210> 5079

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

4572

<400> 5079

Xaa	Ile	Glu	Ile	Asn	Pro	His	Val	Lys	Gly	Thr	Lys	Ala	Gly	Ala	Pro	1	5	10	15
Pro	Arg	Cys	Gly	Arg	Ser	Arg	Thr	Ser	Gly	Ser	Pro	Gly	Leu	Gln	Glu	20	25	30	
Phe	Gly	Thr	Ser	Ser	Ser	Thr	Pro	Ala	Arg	Pro	Ser	Ser	His	His	Ser	35	40	45	
Ala	Cys	Phe	Leu	Gly	Pro	Glu	Ile	Met	Pro	Leu	Gly	Leu	Leu	Trp	Leu	50	55	60	
Gly	Leu	Ala	Leu	Leu	Gly	Ala	Leu	His	Ala	Gln	Ala	Gln	Asp	Ser	Thr	65	70	75	80
Ser	Asp	Leu	Ile	Pro	Ala	Pro	Pro	Leu	Ser	Lys	Val	Pro	Leu	Gln	Gln	85	90	95	
Asn	Phe	Gln	Asp	Asn	Gln	Phe	Gln	Gly	Lys	Trp	Tyr	Val	Val	Gly	Leu	100	105	110	
Ala	Gly	Asn	Ala	Ile	Leu	Arg	Glu	Asp	Lys	Asp	Pro	Gln	Lys	Met	Tyr	115	120	125	
Ala	Thr	Ile	Tyr	Glu	Leu	Lys	Glu	Asp	Lys	Ser	Tyr	Asn	Val	Thr	Ser	130	135	140	
Val	Leu	Phe	Arg	Lys	Lys	Lys	Cys	Asp	Tyr	Trp	Ile	Arg	Thr	Phe	Val	145	150	155	160
Pro	Gly	Cys	Gln	Pro	Gly	Glu	Phe	Thr	Leu	Gly	Asn	Ile	Lys	Ser	Tyr	165	170	175	
Pro	Gly	Leu	Thr	Ser	Tyr	Leu	Val	Arg	Val	Val	Ser	Thr	Asn	Tyr	Asn	180	185	190	
Gln	His	Ala	Met	Val	Phe	Phe	Lys	Lys	Val	Ser	Gln	Asn	Arg	Glu	Tyr	195	200	205	
Phe	Lys	Ile	Thr	Leu	Tyr	Gly	Arg	Thr	Lys	Glu	Leu	Thr	Ser	Glu	Leu	210	215	220	
Lys	Glu	Asn	Phe	Ile	Arg	Phe	Ser	Lys	Ser	Leu	Gly	Leu	Pro	Glu	Asn	225	230	235	240
His	Ile	Val	Phe	Pro	Val	Pro	Ile	Asp	Gln	Cys	Ile	Asp	Gly	245	250				

4573

<210> 5080

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5080

Gln Ala Ala Asp Lys Tyr Val Asp Asp Met Gly Gln Leu Arg Ala Pro
1 5 10 15

Phe Ala Cys His Leu Pro Pro Leu Leu Trp Met Val Ser Pro Leu Ala
20 25 30

Arg Leu Pro Gly Thr Asp His Val Ala Ile Lys Ala Asn Val Asn Lys
35 40 45

Tyr His Glu Thr Val Val Cys Ile Val Phe
50 55

<210> 5081

<211> 76

<212> PRT

<213> Homo sapiens

<400> 5081

Ser Leu Ala Phe Gln Gly Ala Ser Ile Ala Leu His His Asp Leu Ala
1 5 10 15

Leu Val Leu Leu Arg Asp Leu Pro Thr Ala Gly Ser Val Pro Ser Ser
20 25 30

Val Ile Val Leu His Ser Asp Thr Ile Ile Ala Gly Leu Asn Ile Ala
35 40 45

Ile Asn Met Ser Val Pro Gln Ala Glu Arg Gly Phe Leu Ile Leu Arg
50 55 60

Glu Gln Lys Val Phe Trp Leu Lys Arg Leu Lys Thr
65 70 75

<210> 5082

<211> 66

<212> PRT

<213> Homo sapiens

<400> 5082

Lys Tyr Leu Arg Ala Ile Ile Val Gly His Leu Arg Ser Ser Val Asn

4574

1	5	10	15
Ser Glu Leu Ala Asn Leu Ser Leu Cys Val Ser Thr Leu Ile Phe Phe			
	20	25	30
Phe Ser Trp Val Ser Glu Ala Ser Lys Phe Phe Gln Lys Trp Ser Ile			
	35	40	45
Thr Lys Leu Ser Glu Thr Gln Tyr Leu Met Tyr Cys Thr Arg Leu Pro			
	50	55	60
Asn Ser			
65			

<210> 5083

<211> 361

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (344)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (350)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (356)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (359)

<223> Xaa equals any of the naturally occurring L-amino acids

4575

<400> 5083

Xaa	Leu	His	Arg	Gly	Asp	Asp	Arg	Ser	Arg	Thr	Ser	Gly	Ser	Pro	Gly	1	5	10	15
Leu	Gln	Glu	Phe	Gly	Arg	Gly	Xaa	Ala	Gly	Val	Gly	Gly	Arg	Pro	Arg	20	25	30	
Arg	Arg	Arg	Arg	Lys	Gly	Ala	Ala	Ser	Arg	Ala	Arg	Leu	Pro	Phe	Ser	35	40	45	
Leu	Ser	Ile	Met	Asp	Pro	Ser	Leu	Leu	Arg	Glu	Arg	Glu	Leu	Phe	Lys	50	55	60	
Lys	Arg	Ala	Leu	Ser	Thr	Pro	Val	Val	Glu	Lys	Arg	Ser	Ala	Ser	Ser	65	70	75	80
Glu	Ser	Ser	Ser	Ser	Ser	Ser	Lys	Lys	Lys	Lys	Thr	Lys	Val	Glu	His	85	90	95	
Gly	Gly	Ser	Ser	Gly	Ser	Lys	Gln	Asn	Ser	Asp	His	Ser	Asn	Gly	Ser	100	105	110	
Phe	Asn	Leu	Lys	Ala	Leu	Ser	Gly	Ser	Ser	Gly	Tyr	Lys	Phe	Gly	Val	115	120	125	
Leu	Ala	Lys	Ile	Val	Asn	Tyr	Met	Lys	Thr	Arg	His	Gln	Arg	Gly	Asp	130	135	140	
Thr	His	Pro	Leu	Thr	Leu	Asp	Glu	Ile	Leu	Asp	Glu	Thr	Gln	His	Leu	145	150	155	160
Asp	Ile	Gly	Leu	Lys	Gln	Lys	Gln	Trp	Leu	Met	Thr	Glu	Ala	Leu	Val	165	170	175	
Asn	Asn	Pro	Lys	Ile	Glu	Val	Ile	Asp	Gly	Lys	Tyr	Ala	Phe	Lys	Pro	180	185	190	
Lys	Tyr	Asn	Val	Arg	Asp	Lys	Lys	Ala	Leu	Leu	Arg	Leu	Leu	Asp	Gln	195	200	205	
His	Asp	Gln	Arg	Gly	Leu	Gly	Gly	Ile	Leu	Leu	Glu	Asp	Ile	Glu	Glu	210	215	220	
Ala	Leu	Pro	Asn	Ser	Gln	Lys	Ala	Val	Lys	Ala	Leu	Gly	Asp	Gln	Ile	225	230	235	240
Leu	Phe	Val	Asn	Arg	Pro	Asp	Lys	Lys	Lys	Ile	Leu	Phe	Phe	Asn	Asp	245	250	255	
Lys	Ser	Cys	Gln	Phe	Ser	Val	Asp	Glu	Glu	Phe	Gln	Lys	Leu	Trp	Arg	260	265	270	

4576

Ser Val Thr Val Asp Ser Met Asp Glu Glu Lys Ile Glu Glu Tyr Leu
 275 280 285

Lys Arg Gln Gly Ile Ser Ser Met Gln Glu Ser Gly Pro Lys Lys Val
 290 295 300

Ala Pro Ile Gln Arg Arg Lys Lys Pro Ala Ser Gln Lys Lys Arg Arg
 305 310 315 320

Phe Lys Thr His Asn Glu His Leu Ala Gly Val Leu Lys Asp Tyr Ser
 325 330 335

Asp Ile Thr Ser Ser Asn Arg Xaa Gln Phe Cys Leu Gly Xaa Glu Leu
 340 345 350

Gln Ile His Xaa Gln Glu Xaa Ser Cys
 355 360

<210> 5084

<211> 69

<212> PRT

<213> Homo sapiens

<400> 5084

Ile Arg Asn Thr Cys Ile Trp Trp Lys Pro Trp Ile Ser Thr Ser Ser
 1 5 10 15

Asn Tyr Ser Ser Leu Tyr Ser Leu Leu Cys Lys Leu Val Tyr Asn Leu
 20 25 30

Gln Ala Asp Leu Lys Ile Phe Leu Tyr Leu Ile Ala Ala Ala Phe Ile
 35 40 45

Leu Gly Ser Ala Val Thr Phe Asn Tyr Leu Asn Leu Leu Pro Glu Gly
 50 55 60

Met Ser Leu Thr Phe
 65

<210> 5085

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4577

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5085

Leu	Trp	Phe	Arg	Trp	Phe	Gln	Phe	Ser	Asp	Ile	Ser	Ser	Ser	Arg	Lys
1				5					10					15	

Ala	Asp	Ser	Leu	Cys	His	Ser	His	Leu	Ala	Thr	Ala	Ala	Gly	Gly	Ser
			20					25					30		

Gly	Asp	Lys	Asp	Leu	Ser	Ile	Gly	Pro	Ala	His	Gly	Gly	Asn	Thr	Lys
		35					40					45			

Glu	Pro	Gly	Ala	Asp	Ala	Phe	Phe	Arg	Ala	Val	Thr	Thr	Pro	Glu	His
	50					55					60				

Ala	Thr	Leu	Glu	Thr	Ile	Leu	Arg	His	Asn	Gln	Leu	Ile	Leu	Glu	Ala
65					70					75					80

Ile	Gln	Gln	Lys	Ile	Glu	Cys	Lys	Leu	Phe	Thr	Ser	Xaa	Xaa	Glu	His
			85						90					95	

Leu	Xaa	Lys	Leu
			100

<210> 5086

<211> 21

<212> PRT

<213> Homo sapiens

<400> 5086

Ile	Pro	Ala	Thr	Arg	Glu	Ala	Glu	Ala	Gly	Glu	Ser	Leu	Glu	Pro	Gly
1				5					10					15	

Arg	Trp	Arg	Leu	Gln
				20

4578

<210> 5087

<211> 44

<212> PRT

<213> Homo sapiens

<400> 5087

Asp Leu Glu Glu Ile Ile Leu Tyr Tyr Phe Leu Ser Val Phe Phe Asn
 1 5 10 15

Ala Phe Thr Ser Gly Val Gly Met Leu Asp Phe Ile Phe Leu Lys Thr
 20 25 30

Asn Lys Ile Trp Lys Ala Leu Pro Leu Asn Val Thr
 35 40

<210> 5088

<211> 239

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5088

Ser Leu Glu Asn Asp Lys Met Arg Leu Glu Lys Asp Leu Ser Phe Lys
 1 5 10 15

Asp Thr Gln Leu Lys Glu Tyr Glu Glu Leu Leu Ala Ser Val Arg Ala
 20 25 30

Asn Asn His Gln Gln Gln Gln Gly Leu Gln Asp Ser Ser Ser Lys Cys
 35 40 45

Gln Ala Leu Glu Glu Asn Asn Leu Ser Leu Arg His Thr Leu Ser Asp
 50 55 60

Met Glu Tyr Arg Leu Lys Glu Leu Glu Tyr Xaa Lys Arg Asn Leu Glu
 65 70 75 80

Gln Glu Asn Gln Asn Leu Arg Met Gln Val Ser Glu Thr Cys Thr Gly
 85 90 95

Pro Met Leu Gln Ala Lys Met Asp Glu Ile Gly Asn His Tyr Thr Glu
 100 105 110

Met Val Lys Asn Leu Arg Met Glu Lys Asp Arg Glu Ile Cys Arg Leu
 115 120 125

4579

Arg Ser Gln Leu Asn Gln Tyr His Lys Asp Val Ser Lys Arg Glu Gly
 130 135 140
 Ser Cys Ser Asp Phe Gln Phe Lys Leu His Glu Leu Thr Ser Leu Leu
 145 150 155 160
 Glu Glu Lys Asp Ser Leu Ile Lys Arg Gln Ser Glu Glu Leu Ser Lys
 165 170 175
 Leu Arg Gln Glu Ile Tyr Ser Ser His Asn Gln Pro Ser Thr Gly Gly
 180 185 190
 Arg Thr Thr Ile Thr Thr Lys Lys Tyr Arg Thr Gln Tyr Pro Ile Leu
 195 200 205
 Gly Leu Leu Tyr Asp Asp Tyr Glu Tyr Ile Pro Pro Gly Ser Glu Thr
 210 215 220
 Gln Thr Ile Val Ile Glu Lys Thr Glu Asp Lys Tyr Thr Cys Pro
 225 230 235

<210> 5089

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5089

Pro Thr Arg Arg Pro Arg Val Xaa Gly Ala Glu Phe Arg Lys Ile Pro
 1 5 10 15
 Thr Ser Met Lys Ala Lys Arg Ser His Gln Ala Ile Ile Met Ser Thr
 20 25 30
 Ser Leu Arg Val Ser Pro Ser Ile His Gly Tyr His Phe Asp Thr Ala
 35 40 45
 Ser Arg Lys Lys Ala Val Gly Asn Ile Phe Glu Asn Thr Asp Gln Glu
 50 55 60
 Ser Leu Glu Arg Leu Phe Arg Asn Ser Gly Asp Lys Lys Ala Glu Glu
 65 70 75 80
 Arg Ala Lys Ile Ile Phe Ala Ile Asp Gln Asp Val Glu Glu Lys Thr

4580

	85		90		95										
Arg	Ala	Leu	Met	Ala	Leu	Lys	Lys	Arg	Thr	Lys	Asp	Lys	Leu	Phe	Gln
	100							105					110		
Phe	Leu	Lys	Leu	Arg	Lys	Tyr	Ser	Ile	Lys	Val	His				
	115						120								

<210> 5090
 <211> 216
 <212> PRT
 <213> Homo sapiens

<400> 5090
 Gly His Met Glu Leu Ala Met Asp Asn Ser Tyr Ala Phe Asn Gln Arg
 1 5 10 15
 Ser Thr Cys Asn Gly Ile Pro Ser Glu Lys Lys Asn Asn Phe Leu Val
 20 25 30
 Ser Glu Asp His Gly Gln Lys Ile Leu Ser Val Leu Gln Asn Phe Arg
 35 40 45
 Glu Gln Asn Val Phe Tyr Asp Phe Lys Ile Ile Met Lys Asp Glu Ile
 50 55 60
 Ile Pro Cys His Arg Cys Val Leu Ala Ala Cys Ser Asp Phe Phe Arg
 65 70 75 80
 Ala Met Phe Glu Val Asn Met Lys Glu Arg Asp Asp Gly Ser Val Thr
 85 90 95
 Ile Thr Asn Leu Ser Ser Lys Ala Val Lys Ala Phe Leu Asp Tyr Ala
 100 105 110
 Tyr Thr Gly Lys Thr Lys Ile Thr Asp Asp Asn Val Glu Met Phe Phe
 115 120 125
 Gln Leu Ser Ser Phe Leu Gln Val Ser Phe Leu Ser Lys Ala Cys Ser
 130 135 140
 Asp Phe Leu Ile Lys Ser Ile Asn Leu Val Asn Cys Leu Gln Leu Leu
 145 150 155 160
 Ser Ile Ser Asp Ser Tyr Gly Ser Thr Ser Leu Phe Asp His Ala Leu
 165 170 175
 His Phe Val Gln His His Phe Ser Leu Leu Phe Lys Ser Ser Asp Phe
 180 185 190

4581

Leu Glu Met Asn Phe Gly Val Leu Gln Lys Cys Leu Glu Ser Asp Glu
 195 200 205

Leu Asn Val Pro Glu Glu Glu Lys
 210 215

<210> 5091

<211> 535

<212> PRT

<213> Homo sapiens

<400> 5091

Ser Cys Arg Ile Arg His Glu Arg Leu Thr Ser Ala Val Ser Leu Gln
 1 5 10 15

Leu Arg Ala Pro Gly Ala Ala Arg Pro Ala Ser Gly Leu Pro Asp Arg
 20 25 30

Leu Trp Pro Ala Pro Ser Pro Ser Pro Gly Ala His Arg Ala Ala Ala
 35 40 45

Gly Ala Glu Gln Pro Pro Ser Arg Pro Ser Ala Gly Pro Ala Arg Ser
 50 55 60

Gly Arg Met Asn Asp Phe Gly Ile Lys Asn Met Asp Gln Val Ala Pro
 65 70 75 80

Val Ala Asn Ser Tyr Arg Gly Thr Leu Lys Arg Gln Pro Ala Phe Asp
 85 90 95

Thr Phe Asp Gly Ser Leu Phe Ala Val Phe Pro Ser Leu Asn Glu Glu
 100 105 110

Gln Thr Leu Gln Glu Val Pro Thr Gly Leu Asp Ser Ile Ser His Asp
 115 120 125

Ser Ala Asn Cys Glu Leu Pro Leu Leu Thr Pro Cys Ser Lys Ala Val
 130 135 140

Met Ser Gln Ala Leu Lys Ala Thr Phe Ser Gly Phe Lys Lys Glu Gln
 145 150 155 160

Arg Arg Leu Gly Ile Pro Lys Asn Pro Trp Leu Trp Ser Glu Gln Gln
 165 170 175

Val Cys Gln Trp Leu Leu Trp Ala Thr Asn Glu Phe Ser Leu Val Asn
 180 185 190

4582

Val	Asn	Leu	Gln	Arg	Phe	Gly	Met	Asn	Gly	Gln	Met	Leu	Cys	Asn	Leu	195	200	205	
Gly	Lys	Glu	Arg	Phe	Leu	Glu	Leu	Ala	Pro	Asp	Phe	Val	Gly	Asp	Ile	210	215	220	
Leu	Trp	Glu	His	Leu	Glu	Gln	Met	Ile	Lys	Glu	Asn	Gln	Glu	Lys	Thr	225	230	235	240
Glu	Asp	Gln	Tyr	Glu	Glu	Asn	Ser	His	Leu	Thr	Ser	Val	Pro	His	Trp	245	250	255	
Ile	Asn	Ser	Asn	Thr	Leu	Gly	Phe	Gly	Thr	Glu	Gln	Ala	Pro	Tyr	Gly	260	265	270	
Met	Gln	Thr	Gln	Asn	Tyr	Pro	Lys	Gly	Gly	Leu	Leu	Asp	Ser	Met	Cys	275	280	285	
Pro	Ala	Ser	Thr	Pro	Ser	Val	Leu	Ser	Ser	Glu	Gln	Glu	Phe	Gln	Met	290	295	300	
Phe	Pro	Lys	Ser	Arg	Leu	Ser	Ser	Val	Ser	Val	Thr	Tyr	Cys	Ser	Val	305	310	315	320
Ser	Gln	Asp	Phe	Pro	Gly	Ser	Asn	Leu	Asn	Leu	Leu	Thr	Asn	Asn	Ser	325	330	335	
Gly	Thr	Pro	Lys	Asp	His	Asp	Ser	Pro	Glu	Asn	Gly	Ala	Asp	Ser	Phe	340	345	350	
Glu	Ser	Ser	Asp	Ser	Leu	Leu	Gln	Ser	Trp	Asn	Ser	Gln	Ser	Ser	Leu	355	360	365	
Leu	Asp	Val	Gln	Arg	Val	Pro	Ser	Phe	Glu	Ser	Phe	Glu	Asp	Asp	Cys	370	375	380	
Ser	Gln	Ser	Leu	Cys	Leu	Asn	Lys	Pro	Thr	Met	Ser	Phe	Lys	Asp	Tyr	385	390	395	400
Ile	Gln	Glu	Arg	Ser	Asp	Pro	Val	Glu	Gln	Gly	Lys	Pro	Val	Ile	Pro	405	410	415	
Ala	Ala	Val	Leu	Ala	Gly	Phe	Thr	Gly	Ser	Gly	Pro	Ile	Gln	Leu	Trp	420	425	430	
Gln	Phe	Leu	Leu	Glu	Leu	Leu	Ser	Asp	Lys	Ser	Cys	Gln	Ser	Phe	Ile	435	440	445	
Ser	Trp	Thr	Gly	Asp	Gly	Trp	Glu	Phe	Lys	Leu	Ala	Asp	Pro	Asp	Glu	450	455	460	

4583

Val Ala Arg Arg Trp Gly Lys Arg Lys Asn Lys Pro Lys Met Asn Tyr
 465 470 475 480

Glu Lys Leu Ser Arg Gly Leu Arg Tyr Tyr Tyr Asp Lys Asn Ile Ile
 485 490 495

His Lys Thr Ser Gly Lys Arg Tyr Val Tyr Arg Phe Val Cys Asp Leu
 500 505 510

Gln Asn Leu Leu Gly Phe Thr Pro Glu Glu Leu His Ala Ile Leu Gly
 515 520 525

Val Gln Pro Asp Thr Glu Asp
 530 535

<210> 5092

<211> 452

<212> PRT

<213> Homo sapiens

<400> 5092

Asp Pro Arg Val Arg Pro Arg Arg Pro Gln Ser Leu Ser Pro Val Leu
 1 5 10 15

Ser Leu Ser Pro Asp Ser Met Ser Phe Thr Thr Arg Ser Thr Phe Ser
 20 25 30

Thr Asn Tyr Arg Ser Leu Gly Ser Val Gln Ala Pro Ser Tyr Gly Ala
 35 40 45

Arg Pro Val Ser Ser Ala Ala Ser Val Tyr Ala Gly Ala Gly Gly Ser
 50 55 60

Gly Ser Arg Ile Ser Val Ser Arg Ser Thr Ser Phe Arg Gly Gly Met
 65 70 75 80

Gly Ser Gly Gly Leu Ala Thr Gly Ile Ala Gly Gly Leu Ala Gly Met
 85 90 95

Gly Gly Ile Gln Asn Glu Lys Glu Thr Met Gln Ser Leu Asn Asp Arg
 100 105 110

Leu Ala Ser Tyr Leu Asp Arg Val Arg Ser Leu Glu Thr Glu Asn Arg
 115 120 125

Arg Leu Glu Ser Lys Ile Arg Glu His Leu Glu Lys Lys Gly Pro Gln
 130 135 140

Val Arg Asp Trp Ser His Tyr Phe Lys Ile Ile Glu Asp Leu Arg Ala

4584

145		150		155		160
Gln Ile Phe Ala Asn Thr Val Asp Asn Ala Arg Ile Val Leu Gln Ile						
	165		170		175	
Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg Val Lys Tyr Glu Thr						
	180		185		190	
Glu Leu Ala Met Arg Gln Ser Val Glu Asn Asp Ile His Gly Leu Arg						
	195		200		205	
Lys Val Ile Asp Asp Thr Asn Ile Thr Arg Leu Gln Leu Glu Thr Glu						
	210		215		220	
Ile Glu Ala Leu Lys Glu Glu Leu Leu Phe Met Lys Lys Asn His Glu						
	225		230		235	240
Glu Glu Val Lys Gly Leu Gln Ala Gln Ile Ala Ser Ser Gly Leu Thr						
	245		250		255	
Val Glu Val Asp Ala Pro Lys Ser Gln Asp Leu Ala Lys Ile Met Ala						
	260		265		270	
Asp Ile Arg Ala Gln Tyr Asp Glu Leu Ala Arg Lys Asn Arg Glu Glu						
	275		280		285	
Leu Asp Lys Tyr Trp Ser Gln Gln Ile Glu Glu Ser Thr Thr Val Val						
	290		295		300	
Thr Thr Gln Ser Ala Glu Val Gly Ala Ala Glu Thr Thr Leu Thr Glu						
	305		310		315	320
Leu Arg Arg Thr Val Gln Ser Leu Glu Ile Asp Leu Asp Ser Met Arg						
	325		330		335	
Asn Leu Lys Ala Ser Leu Glu Asn Ser Leu Arg Glu Val Glu Ala Arg						
	340		345		350	
Tyr Ala Leu Gln Met Glu Gln Leu Asn Gly Ile Leu Leu His Leu Glu						
	355		360		365	
Ser Glu Leu Ala Gln Thr Arg Ala Glu Gly Gln Arg Gln Ala Gln Glu						
	370		375		380	
Tyr Glu Ala Leu Leu Asn Ile Lys Val Lys Leu Glu Ala Glu Ile Ala						
	385		390		395	400
Thr Tyr Arg Arg Leu Leu Glu Asp Gly Glu Asp Phe Asn Leu Gly Asp						
	405		410		415	
Ala Leu Asp Ser Ser Asn Ser Met Gln Thr Ile Gln Lys Thr Thr Thr						

420

425

430

Arg Arg Ile Val Asp Gly Lys Val Val Ser Glu Thr Asn Asp Thr Lys
435 440 445

Val Leu Arg His
450

<210> 5093

 $\langle 211 \rangle$ 110

<212> PRT

<213> Homo sapiens

<400> 5093

Leu Ser Ile Phe Ser Ser Ser Pro Ile Met Val Asp Asn Asp Ser Ser
1 5 10 15

Gly Thr Ser Asp Lys Asp His Ser Glu Ile Leu Asp Gly Ile Ser Asn
20 25 30

Ile Lys Leu Asn Ser Glu Glu Val Thr Gln Ser Gln Leu Asp Ser Cys
35 40 45

Thr Ser His Asp Gly His Gln Gln Leu Ser Glu Val Ser Ser Lys Arg
50 55 60

Glu Cys Pro Ala Ser Gly Gln Ser Glu Pro Arg Asn Gly Gly Thr Asn
65 70 75 80

Glu Glu Ser Asn Ser Ser Gly Asn Thr Asn Thr Asp Pro Pro Ala Glu
85 90 95

Asp Ser Gln Lys Ser Ser Gly Ala Asn Gln Ala Lys Thr Asp
100 105 110

<210> 5094

<211> 66

<212> PRT

<213> Homo sapiens

<400> 5094

Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Gly Arg Ser Arg
1 5 10 15

Lys Ile Leu Thr His Lys Asn Phe Gly Leu Glu Ser Phe Pro Gly Val
20 25 30

4586

Val Pro Ile Lys Thr Asp Leu Glu Arg Lys Pro Ala Gln His Gly Thr
 35 40 45

Cys Phe Leu Asn Ser Leu Glu Ser Val Trp Cys Met Ser Leu Leu Ile
 50 55 60

Tyr Ser
 65

<210> 5095

<211> 241

<212> PRT

<213> Homo sapiens

<400> 5095

Ser Phe Ser Glu Met Ala Gly Val Ser Ala Cys Ile Lys Tyr Ser Met
 1 5 10 15

Phe Thr Phe Asn Phe Leu Phe Trp Leu Cys Gly Ile Leu Ile Leu Ala
 20 25 30

Leu Ala Ile Trp Val Arg Val Ser Asn Asp Ser Gln Ala Ile Phe Gly
 35 40 45

Ser Glu Asp Val Gly Ser Ser Ser Tyr Val Ala Val Asp Ile Leu Ile
 50 55 60

Ala Val Gly Ala Ile Ile Met Ile Leu Gly Phe Leu Gly Cys Cys Gly
 65 70 75 80

Ala Ile Lys Glu Ser Arg Cys Met Leu Leu Leu Phe Phe Ile Gly Leu
 85 90 95

Leu Leu Ile Leu Leu Leu Gln Val Ala Thr Gly Ile Leu Gly Ala Val
 100 105 110

Phe Lys Ser Lys Ser Asp Arg Ile Val Asn Glu Thr Leu Tyr Glu Asn
 115 120 125

Thr Lys Leu Leu Ser Ala Thr Gly Glu Ser Glu Lys Gln Phe Gln Glu
 130 135 140

Ala Ile Ile Val Phe Gln Glu Glu Phe Lys Cys Cys Gly Leu Val Asn
 145 150 155 160

Gly Ala Ala Asp Trp Gly Asn Asn Phe Gln His Tyr Pro Glu Leu Cys
 165 170 175

Ala Cys Leu Asp Lys Gln Arg Pro Cys Gln Ser Tyr Asn Gly Lys Gln

4587

180 185 190
 Val Tyr Lys Glu Thr Cys Ile Ser Phe Ile Lys Asp Phe Leu Ala Lys
 195 200 205
 Asn Leu Ile Ile Val Ile Gly Ile Ser Phe Gly Leu Ala Val Ile Glu
 210 215 220
 Ile Leu Gly Leu Val Phe Ser Met Val Leu Tyr Cys Gln Ile Gly Asn
 225 230 235 240
 Lys

<210> 5096
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 5096
 Gly Gly Phe Phe Ser Ile Ser Phe Lys Arg Cys Met Ser Glu Phe Pro
 1 5 10 15
 Leu His Thr Lys Asn Trp Ser Leu Glu Pro His Tyr Ser Leu Ser Gln
 20 25 30
 Val Leu Val Pro Tyr Thr Pro Glu Cys Gln Met Val Gly Ala Asp Trp
 35 40 45
 Lys Lys Glu Lys Ser Ser Ser Arg Cys Val Gly Ser His Pro Pro His
 50 55 60
 Ile Ala Ser Pro Ser Ser Glu Gln Trp Ala Trp Gly Arg Lys Leu Phe
 65 70 75 80
 Gln

<210> 5097
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 5097
 Arg Pro Gln Arg Leu Gly Arg Leu Gly Phe Pro Leu Pro Pro Arg Thr
 1 5 10 15

4588

Pro Lys Asp Thr Pro Asn Pro Arg Pro Ala Gly Pro Ala Leu Ala Arg
20 25 30

Pro Lys Tyr Tyr Leu Ala Gln Ala Ser Ala Arg Gly Thr Pro Lys Leu
35 40 45

Pro Met Tyr Pro Ala Pro Glu Gly Leu His Ser Gln Glu Val Pro Met
50 55 60

Tyr Pro Asn Thr Gly Arg His Pro Ala Pro Pro Ser Gln Thr Arg Lys
65 70 75 80

Lys Val Asn Leu Thr Thr Thr Tyr Ser Pro Lys Thr Thr Tyr Phe Val
85 90 95

Leu Ala Gly Leu Pro Ala Thr
100

<210> 5098

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4589

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5098

Ile	Gly	Thr	Ser	Ser	Phe	Ala	Asn	His	Pro	Pro	Ala	Ala	Arg	Leu	Phe
1				5					10					15	

Pro	Ala	Asn	Lys	Glu	Arg	Glu	Glu	Ile	Gln	Thr	Leu	Lys	Gln	Gln	Xaa
			20					25					30		

Ala	Xaa	Leu	Arg	Glu	Asp	Leu	Lys	Xaa	Xaa	Glu	Xaa	Lys	Trp	Ser	Ser
		35					40					45			

Thr	His	Ser	Arg	Leu	Arg	Ser	Gln	Ile	Gln	Met	Leu	Val	Arg	Glu	Asn
	50					55					60				

Thr	Asp	Xaa	Arg	Glu	Glu	Ile	Lys	Val	Met	Glu	Arg	Phe	Arg	Leu	Asp
65					70					75					80

Ala	Trp	Lys	Arg	Ala	Glu	Ala	Ile	Glu	Ser	Ser	Leu	Glu	Val	Glu	Lys
				85					90					95	

Lys	Asp	Lys	Leu	Ala	Asn	Thr	Ser	Val	Arg	Phe	Gln	Asn	Ser	Gln	Ile
			100					105					110		

Ser	Ser	Gly	Thr	Gln	Val	Glu	Lys	Tyr	Lys	Lys	Asn	Tyr	Leu	Pro	Met
		115					120					125			

Gln	Gly	Lys	Arg	Leu	His	Asp	Leu	Phe	Ile	Lys	His	Phe	Arg	Met	
	130					135					140				

<210> 5099

<211> 121

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5099

Thr	Met	Ile	Thr	Pro	Ser	Ser	Lys	Leu	Thr	Leu	Thr	Lys	Gly	Asn	Lys
1				5					10					15	

Ser	Trp	Ser	Ser	Thr	Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro
				20				25					30		

4590

Pro Gly Cys Arg Asn Ser Ala Arg Gly Xaa Gly Asn Glu Tyr Ile His
 35 40 45
 Phe Ser Val Ile Lys Leu Leu Lys Val Asn Phe Asn Val Leu Ile Val
 50 55 60
 Phe Leu Met Cys Ala Ala Glu Met Ala Met Ser Leu Leu Asn Leu His
 65 70 75 80
 Leu Gln Leu Lys Gly Ser Phe Arg Arg Lys Tyr Lys Leu Ala Phe Ile
 85 90 95
 Leu Gln Thr Ile Val Phe Tyr Phe Ile Ile Leu Ile Cys Phe Val Thr
 100 105 110
 His Lys Lys Glu Thr Ile Pro Glu Leu
 115 120

<210> 5100

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5100

Gln Xaa Glu Leu Xaa Leu Lys Lys Lys Lys Lys Ile Ile Cys Lys Ile
 1 5 10 15

Asn Ser Gly Ile Val Val Leu Phe Lys Glu Met Phe Cys Lys Leu Ser
 20 25 30

Ser His Tyr Ile Ile Phe Ile Val Leu Ser
 35 40

<210> 5101

<211> 48

<212> PRT

<213> Homo sapiens

4591

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5101

Lys	Tyr	His	Ser	Ser	His	Xaa	Asn	Ile	Pro	Phe	Asn	Leu	Leu	Phe	Leu
1				5				10				15			

Lys	Gly	Tyr	Cys	Lys	Tyr	Glu	Ser	Ile	Tyr	Lys	Val	Asn	Cys	Tyr	Phe
			20					25					30		

Phe	Cys	Ser	Glu	Lys	Tyr	Thr	Leu	Lys	Ile	Val	Ile	Val	Asn	Asn	Val
		35					40					45			

<210> 5102

<211> 45

<212> PRT

<213> Homo sapiens

<400> 5102

Glu	Arg	Asn	Trp	Met	Phe	Gln	Lys	Leu	Leu	His	Leu	Leu	Gln	Met	Ser
1				5				10					15		

Gln	Ile	Gln	Leu	Leu	Pro	Phe	Glu	Asn	Val	Gly	Glu	Met	Ser	Leu	Lys
			20					25					30		

Asn	Met	Phe	Val	Cys	Lys	Asn	Val	Ser	Val	Cys	Asn	Ser
		35					40					45

<210> 5103

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5103

Val	Trp	Gly	Pro	Pro	Val	Pro	Ser	Trp	Ala	Ala	Glu	Gly	Gly	Ala	Phe
1				5				10						15	

Tyr	Pro	Arg	Phe	Leu	Ser	Leu	Leu	Lys	Ser	Leu	Glu	Gln	Thr	Val	Ala
			20					25					30		

Ala	Leu	His	Pro	Leu	Leu	Phe	Lys	Lys	Asn	Phe	Phe	Ser	Arg	Lys	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4592

35 40 45
 Met Leu Ser Val Cys Trp Gly Lys Phe
 50 55

<210> 5104
 <211> 56
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5104
 Gly Lys Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp
 1 5 10 15
 Pro Arg Val Arg Ser Leu Asp Ser Asn Xaa Leu Ser Ile Asn Phe Ser
 20 25 30
 Pro Gln Thr Thr Val Asn Phe Tyr Phe Leu Ser Ala Glu Ile Phe His
 35 40 45
 Arg Trp Lys Leu Met Phe Gln Phe
 50 55

<210> 5105
 <211> 370
 <212> PRT
 <213> Homo sapiens

<400> 5105
 Lys Gly Arg Ser Ser Glu Ser Thr Thr Pro Leu Asn Val Ser Arg Glu
 1 5 10 15
 Thr Leu Gln Gln His Lys Leu Leu Lys Val Ile Arg Lys Lys Leu Val
 20 25 30
 Arg Lys Thr Leu Asp Met Ile Lys Lys Ile Ala Asp Asp Lys Tyr Asn
 35 40 45
 Asp Thr Phe Trp Lys Glu Phe Gly Thr Asn Ile Lys Leu Gly Val Ile
 50 55 60
 Glu Asp His Ser Asn Arg Thr Arg Leu Ala Lys Leu Leu Arg Phe Gln

4593

65					70						75					80
Ser	Ser	His	His	Pro	Thr	Asp	Ile	Thr	Ser	Leu	Asp	Gln	Tyr	Val	Glu	
				85					90					95		
Arg	Met	Lys	Glu	Lys	Gln	Asp	Lys	Ile	Tyr	Phe	Met	Ala	Gly	Ser	Ser	
			100					105					110			
Arg	Lys	Glu	Ala	Glu	Ser	Ser	Pro	Phe	Val	Glu	Arg	Leu	Leu	Lys	Lys	
		115					120					125				
Gly	Tyr	Glu	Val	Ile	Tyr	Leu	Thr	Glu	Pro	Val	Asp	Glu	Tyr	Cys	Ile	
	130					135					140					
Gln	Ala	Leu	Pro	Glu	Phe	Asp	Gly	Lys	Arg	Phe	Gln	Asn	Val	Ala	Lys	
145					150					155					160	
Glu	Gly	Val	Lys	Phe	Asp	Glu	Ser	Glu	Lys	Thr	Lys	Glu	Ser	Arg	Glu	
				165					170					175		
Ala	Val	Glu	Lys	Glu	Phe	Glu	Pro	Leu	Leu	Asn	Trp	Met	Lys	Asp	Lys	
			180					185					190			
Ala	Leu	Lys	Asp	Lys	Ile	Glu	Lys	Ala	Val	Val	Ser	Gln	Arg	Leu	Thr	
		195					200					205				
Glu	Ser	Pro	Cys	Ala	Leu	Val	Ala	Ser	Gln	Tyr	Gly	Trp	Ser	Gly	Asn	
	210					215					220					
Met	Glu	Arg	Ile	Met	Lys	Ala	Gln	Ala	Tyr	Gln	Thr	Gly	Lys	Asp	Ile	
225					230					235					240	
Ser	Thr	Asn	Tyr	Tyr	Ala	Ser	Gln	Lys	Lys	Thr	Phe	Glu	Ile	Asn	Pro	
				245					250					255		
Arg	His	Pro	Leu	Ile	Arg	Asp	Met	Leu	Arg	Arg	Ile	Lys	Glu	Asp	Glu	
			260					265					270			
Asp	Asp	Lys	Thr	Val	Leu	Asp	Leu	Ala	Val	Val	Leu	Phe	Glu	Thr	Ala	
		275					280					285				
Thr	Leu	Arg	Ser	Gly	Tyr	Leu	Leu	Pro	Asp	Thr	Lys	Ala	Tyr	Gly	Asp	
	290					295					300					
Arg	Ile	Glu	Arg	Met	Leu	Arg	Leu	Ser	Leu	Asn	Ile	Asp	Pro	Asp	Ala	
305					310					315					320	
Lys	Val	Glu	Glu	Glu	Pro	Glu	Glu	Glu	Pro	Glu	Glu	Thr	Ala	Glu	Asp	
				325					330					335		
Thr	Thr	Glu	Asp	Thr	Glu	Gln	Asp	Glu	Asp	Glu	Glu	Met	Asp	Val	Gly	

340

345

350

Thr Asp Glu Glu Glu Glu Thr Ala Lys Glu Ser Thr Ala Glu Lys Asp
355 360 365

Glu Leu
370

<210> 5106

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5106

Ile Ile Ile Ile Lys Lys Ile Asn Ala Met Gln Leu Gly Met Ala Asn
1 5 10 15

Val Asn Ala Tyr Leu Tyr Gln Arg Leu Thr Leu Ser Ser Gly Leu Ser
20 25 30

Leu Val Asp Tyr Pro Trp Gln Thr Leu Asn Glu Gln Arg Glu Ala Thr
35 40 45

Met	Leu	Lys	Asp	Lys	Ser	Pro	Leu	Ser	Ser	Tyr	Tyr	Arg	Asn	Asn	Val
	50					55					60				

<210> 5107

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

$\langle 222 \rangle$ (1)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5107

Xaa Gln Ala Thr Ala Ile Asn Thr Asp Val Asn Gly Cys Ile Cys Phe
1 5 10 15

4595

Ala Val Val Thr Gly Leu Gly Arg Phe Gly Ile Cys Glu Arg Ile Asp
 20 25 30

Ser Phe Ser Lys Leu Phe His Lys Val Lys Lys Leu His Phe Lys Gly
 35 40 45

Asn Arg Ser Tyr Ser Ser Leu Lys Ser Xaa Ser Asn Cys Ser Phe Ile
 50 55 60

<210> 5108
 <211> 98
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (93)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5108
 Val Glu Pro Arg His Ser Ser Ala Xaa Asn Leu His Ser Leu Ser Ile
 1 5 10 15

Ser His Ser Pro Ser Leu Phe Pro Leu Trp Pro His Trp His Pro Gly
 20 25 30

Thr Phe Xaa Pro Xaa Gly Leu Cys Thr Tyr Cys Ser Asn Ser Leu Glu
 35 40 45

Cys Pro His Ser His Thr Lys Ser Leu Ala Ser Phe Thr Ala Leu Leu

4596

50 55 60
 Lys Ser His Leu Leu Ser Glu Ala Phe Pro Asp His Pro Ala Thr Asn
 65 70 75 80
 Ser Pro Ser Leu Cys Asn Ile Ala Gly Phe Phe Leu Xaa Ala Phe Ile
 85 90 95
 Ile Ser

<210> 5109
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 5109
 Val Glu Thr Gly Phe Ile Met Leu Cys Arg Leu Leu Ser Asn Ser
 1 5 10 15

<210> 5110
 <211> 144
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (124)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (130)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5110
 Glu Lys Pro Phe Ser Ser Phe Thr Ser Met Lys Ser Ser Asp Val Phe

4597

1	5	10	15
Ser Ser Lys Gly Met Thr Arg Trp Gly Glu Phe Asp Asp Leu Tyr Arg	20	25	30
Ile Ser Glu Leu Asp Arg Thr Gln Ile Pro Met Ser Glu Lys Arg Asn	35	40	45
Ser Gln Glu Asp Tyr Leu Ser Tyr His Ser Asn Thr Leu Lys Pro His	50	55	60
Ala Lys Asp Glu Pro Asp Ser Pro Val Leu Tyr Arg Thr Met Ser Glu	65	70	75
Ala Ala Leu Val Arg Lys Arg Met Lys Pro Leu Met Met Asp Arg Xaa	85	90	95
Glu Arg Gln Lys Asn Arg Ala Ser Ile Asn Gly His Phe Tyr Asn His	100	105	110
Glu Thr Ser Ile Phe Ile Pro Ala Phe Glu Ser Xaa Thr Lys Val Arg	115	120	125
Val Xaa Ser Xaa Met Arg Thr Glu Glu Val Ile Lys Gln Leu Leu Gln	130	135	140

<210> 5111

<211> 112

<212> PRT

<213> Homo sapiens

<400> 5111

Arg Phe Phe Ile Ile Val Pro Lys Thr Asn Thr Leu Gln Val Val Leu	1	5	10	15
Glu Arg His His Phe Cys Gly Met Phe Trp Leu Gly Glu Gly Val Thr	20	25	30	
Val Pro Thr Pro Pro Thr Ser Tyr Ala Ser Ala Leu Arg Arg Trp Leu	35	40	45	
Phe Ile Gln Thr Trp Thr Tyr Ser Leu Pro Arg Ala Asp Glu Met Leu	50	55	60	
Asn Phe Leu Trp Gly His Ser Leu Ile Val Pro Ala Ala Ala Thr Gly	65	70	75	80

4598

Ala Ser Leu Glu Ala Ala Cys Ala Lys Thr Thr Gln Leu Ser Leu Gly
85 90 95

Ser His Pro Arg Ala Phe Phe Ala Ser Arg Ser Gly Asp Leu Leu Gln
100 105 110

```
<210> 5112
<211> 92
<212> PRT
<213> Homo sapiens
```

```

<400> 5112
Glu Ile Tyr Trp Glu Thr Asp Tyr Asn His Ser Gly Thr Ile Asp Ala
  1                               10                      15
His Glu Met Arg Thr Ala Leu Arg Lys Ala Gly Phe Thr Leu Asn Ser
      20                      25                      30
Gln Val Gln Gln Thr Ile Ala Leu Arg Tyr Ala Cys Ser Lys Leu Gly
      35                      40                      45
Ile Asn Phe Asp Ser Phe Val Ala Cys Met Ile Arg Leu Glu Thr Leu
      50                      55                      60
Phe Lys Leu Phe Ser Leu Leu Asp Glu Asp Lys Asp Gly Met Val Gln
      65                      70                      75                      80
Leu Ser Leu Ala Glu Trp Leu Cys Cys Val Leu Val
      85                      90

```

```
<210> 5113
<211> 27
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 5113
Asn Pro Val Ser Thr Lys Asn Thr Lys Ile Ser Trp Thr Trp Trp Trp
  1                      5                      10                     15
```

4599

Ala Pro Val Val Pro Ala Thr Gln Xaa Gly Glu
 20 25

<210> 5114

<211> 333

<212> PRT

<213> Homo sapiens

<400> 5114

Arg Pro Arg Val Arg Glu Asn Leu Pro Leu Trp Gln His Ile Ser Phe
 1 5 10 15

Gln Ala Leu Pro Pro Glu Leu Arg Glu Gln Thr Val His Glu Val Thr
 20 25 30

Thr Val Gly Thr Ala Glu Cys Arg Lys Trp Leu Ser Arg Ser Arg Thr
 35 40 45

Leu Gly Glu Leu Glu Ser Leu Asn Thr Val Leu Ser Ala Leu Leu Ala
 50 55 60

Val Cys Asn Ser Ala Gly Glu Ala Leu Asp Thr Gly Lys Gln Thr Ala
 65 70 75 80

Ile Ile Glu Val Val Ser Gln Leu Trp Ala Phe Leu Asn Ile Lys Gln
 85 90 95

Val Ala Asp Gln Pro Tyr Val Gln Gln Thr Phe Ser Leu Leu Leu Pro
 100 105 110

Leu Leu Gly Phe Phe Ile Gln Thr Leu Asp Pro Lys Leu Ile Leu Gln
 115 120 125

Ala Val Thr Leu Gln Thr Ser Leu Leu Lys Leu Glu Leu Pro Asp Tyr
 130 135 140

Val Arg Leu Ala Met Leu Asp Phe Val Ser Ser Leu Gly Lys Leu Phe
 145 150 155 160

Ile Pro Glu Ala Ile Gln Asp Arg Ile Leu Pro Asn Leu Ser Cys Met
 165 170 175

Phe Ala Leu Leu Leu Ala Asp Arg Ser Trp Leu Leu Glu Gln His Thr
 180 185 190

Leu Glu Ala Phe Thr Gln Phe Ala Glu Gly Thr Asn His Glu Glu Ile
 195 200 205

4600

Val Pro Gln Cys Leu Ser Ser Glu Glu Thr Lys Asn Lys Val Val Ser
 210 215 220
 Phe Leu Glu Lys Thr Gly Phe Val Asp Glu Thr Glu Ala Ala Lys Val
 225 230 235 240
 Glu Arg Val Lys Gln Glu Lys Gly Ile Phe Trp Glu Pro Phe Ala Asn
 245 250 255
 Val Thr Val Glu Glu Ala Lys Arg Ser Ser Leu Gln Pro Tyr Ala Lys
 260 265 270
 Arg Ala Arg Gln Glu Phe Pro Trp Glu Glu Glu Tyr Arg Ser Ala Leu
 275 280 285
 His Thr Ile Ala Gly Ala Leu Glu Ala Thr Glu Ser Leu Leu Gln Lys
 290 295 300
 Gly Pro Ala Pro Ala Trp Leu Ser Met Glu Met Glu Ala Leu Gln Glu
 305 310 315 320
 Arg Met Asp Lys Leu Lys Arg Tyr Ile His Thr Leu Gly
 325 330

<210> 5115
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 5115
 Glu Gln Gln Leu Arg Arg Gly Gly Arg Val Gly Gly Gln Pro Tyr Val
 1 5 10 15
 Trp Ser Thr Gln Arg Pro Ala Ile Pro Ile Ser Val Leu Leu Ser Ile
 20 25 30
 Ser Ser Glu Asp Leu Ser Glu Asn Arg Ala Gly Met Arg Ser Gln Thr
 35 40 45

<210> 5116
 <211> 40
 <212> PRT
 <213> Homo sapiens

4601

<400> 5116

Asn Pro Ile Ser Thr Lys Asn Ala Lys Ile Ser His Val Trp Cys Tyr
1 5 10 15

Ala Pro Val Val Pro Ala Thr Leu Glu Ala Glu Ala Gly Glu Ser Leu
20 25 30

Glu Pro Arg Arg Arg Arg Leu Trp
35 40

<210> 5117

<211> 32

<212> PRT

<213> Homo sapiens

<400> 5117

Asn His Leu Ile Cys Lys Leu Glu Trp Ala Leu Glu Asn His Thr Val
1 5 10 15

Phe Leu Ser His Phe Thr Gly Lys Ile Thr Asp Val Ser Ile Cys Asp
20 25 30

<210> 5118

<211> 16

<212> PRT

<213> Homo sapiens

<400> 5118

Asn Phe Ile Ala Leu Ser Ser Tyr Ile Ile Lys Glu Asp Lys Pro Gln
1 5 10 15

<210> 5119

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

4602

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5119

Pro	Leu	Pro	His	Ala	Asp	Leu	Gln	Gln	Val	Ala	Gln	Xaa	Glu	Pro	Asn
1				5					10					15	
Asn	Ala	Tyr	Asp	Glu	Glu	Asp	Cys	Val	Glu	Met	Val	Ala	Ser	Gly	Gly
			20					25					30		
Trp	Asn	Asp	Val	Ala	Cys	His	Thr	Thr	Met	Tyr	Phe	Met	Cys	Glu	Phe
			35				40					45			
Asp	Lys	Glu	Asn	Met											
			50												

<210> 5120

<211> 61

<212> PRT

<213> Homo sapiens

<400> 5120

Ser	Leu	Asp	Ile	His	Lys	Glu	Arg	Arg	Tyr	Ser	Asp	Glu	Gly	Asp	His
1				5					10					15	
Asn	Ser	Val	Val	Leu	Met	Ile	Leu	Asp	Tyr	Asn	Leu	Phe	Leu	Phe	Ile
			20					25					30		
Phe	His	Ser	Phe	Phe	Lys	Asn	Met	Asp	Cys	Ile	Leu	Ser	Thr	Thr	Ile
			35				40					45			
Ser	Gln	Ile	Pro	Lys	Ile	Val	Leu	Thr	Phe	Ser	Asp	Tyr			
			50			55					60				

<210> 5121

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

4603

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5121

Gln	Asn	Asn	Thr	Val	Leu	Val	Glu	Gly	Cys	Phe	Cys	Pro	Glu	Gly	Thr
1				5					10					15	

Met	Asn	Tyr	Ala	Pro	Gly	Phe	Asp	Val	Cys	Val	Lys	Thr	Cys	Gly	Cys
			20					25					30		

Xaa	Gly	Pro	Asp	Asn	Val	Pro	Arg	Glu	Phe	Gly	Glu	His	Phe	Glu	Phe
		35					40					45			

Asp	Cys	Lys	Asn	Cys	Val	Cys	Leu	Glu	Gly	Gly	Ser	Gly	Ile	Ile	Cys
	50					55					60				

Gln	Pro	Lys	Arg	Cys	Ser	Gln	Lys	Pro	Val	Thr	His	Cys	Val	Glu	Asp
65					70					75					80

Gly	Thr	Tyr	Leu	Ala	Thr	Glu	Val	Asn	Pro	Ala	Asp	Thr	Cys	Cys	Asn
				85					90					95	

Xaa	Thr	Val	Cys	Lys	Cys	Gln	His	Gln	Pro	Val	Gln	Arg	Glu	Ala	Leu
			100					105					110		

Arg	Val	Pro	Ala	Gly	Asn	Ser	Lys	Trp	Lys	Ser	Lys	Met	Val	Pro	Gly
		115					120					125			

Lys	Cys	Cys	Pro	Phe	Tyr	Trp	Cys	Glu	Val	Gln	Gly	Gly	Val	Cys	Ser
	130					135					140				

Arg	Gly	Met	Leu	Ser	Thr	Ser	Pro	Val	Leu	Pro	Val	Tyr	Ser	Ser	Lys
145					150					155					160

Trp	Pro	Gly	Leu	Ala	Cys	Xaa	Lys	Gly	Gln	Gly	Gly	Thr	Thr	Thr	Thr
			165						170					175	

Leu	Xaa	Gln	Arg	Ser	Leu	Ala	Trp	Gln	Pro	Thr	Gly	Gly
			180					185				

<210> 5122

4604

<211> 225

<212> PRT

<213> Homo sapiens

<400> 5122

Glu Ala Ser Ser Pro Thr Phe Ser Lys Glu Pro Met Lys Val Gln Asp
 1 5 10 15

Ser Val Leu Ile Lys Ala Asp Asn Thr Ile Glu Gly Asp Asn Asn Glu
 20 25 30

Gln Asn Tyr Ile Lys Asp Val Lys Leu Glu Asp His Leu Leu Ala Gly
 35 40 45

Ser Cys Leu Lys Gln Ser Ser Lys Asn Ile Phe Thr Glu Arg Ala Glu
 50 55 60

Asp Gln Ile Lys Ile Ser Thr Arg Lys Gln Lys Ser Val Lys Glu Ile
 65 70 75 80

Ser Ser Tyr Thr Pro Lys Asp Cys Thr Ser Arg Asn Gly Pro Glu Arg
 85 90 95

Gly Cys Asp Arg Gly Ile Ile Val Ser Thr Arg Leu Leu Thr Asp Ser
 100 105 110

Ser Thr Asp Ala Leu Glu Lys Val Ser Thr Ser Asn Glu Asp Phe Ser
 115 120 125

Leu Lys Asp Asp Ala Leu Ala Lys Thr Ser Lys Arg Lys Thr Lys Val
 130 135 140

Gln Lys Asp Glu Ile Cys Ala Lys Leu Ser His Val Ile Lys Lys Gln
 145 150 155 160

His Arg Lys Ser Thr Leu Val Asp Asn Thr Ile Asn Leu Asp Glu Asn
 165 170 175

Leu Thr Val Ser Asn Ile Glu Ser Phe Tyr Ser Arg Lys Asp Thr Gly
 180 185 190

Val Gln Lys Gly Asp Gly Phe Ile His Asn Leu Ser Leu Asp Pro Ser
 195 200 205

Gly Val Leu Asp Asp Lys Asn Gly Glu Gln Lys Ser Gln Asn Asn Val
 210 215 220

Leu
 225

4605

<210> 5123

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5123

Glu	Gln	Lys	Gly	Ser	Arg	Glu	Trp	Gly	Ser	Lys	Asn	Gly	Ser	Arg	Val
1				5				10					15		

Arg	Met	Arg	Ser	Gln	Xaa	Lys	Trp	Cys	Phe	Xaa	Gly	Gly	His	Lys	Glu
			20					25					30		

Gly	Arg	Val	Ile	Asp	Phe
			35		

<210> 5124

<211> 71

<212> PRT

<213> Homo sapiens

<400> 5124

Cys	Gln	Thr	Ile	Trp	Arg	Ser	Ile	Arg	Gly	Leu	Thr	Gly	His	Ile	Ile
1				5					10				15		

Arg	Gln	Pro	His	Phe	Ser	Ser	Ser	Ser	Met	Arg	Lys	Trp	Met	Ile	Ser
			20					25					30		

Leu	Phe	His	Met	Ser	Leu	Gly	Glu	Arg	Leu	Pro	Val	Pro	Leu	Lys	Leu
			35				40					45			

Cys	Ile	Leu	Leu	Glu	Thr	Glu	Ala	Ser	Arg	Trp	Leu	Trp	Gln	Leu	Ala
			50				55				60				

Lys	Ala	Lys	Met	Leu	Cys	Ala
			65			70

4606

<210> 5125

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (184)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5125

Arg	Arg	Val	Gln	Gln	Glu	Ile	Asp	Asp	Val	Ile	Gly	Gln	Val	Arg	Arg
1				5					10					15	

Pro	Glu	Met	Gly	Asp	Gln	Ala	His	Met	Pro	Tyr	Thr	Thr	Ala	Val	Ile
			20					25					30		

His	Glu	Val	Gln	Arg	Phe	Gly	Asp	Ile	Val	Pro	Xaa	Gly	Val	Thr	His
		35					40					45			

Met	Thr	Ser	Arg	Asp	Ile	Glu	Val	Gln	Gly	Phe	Arg	Ile	Pro	Lys	Gly
	50					55					60				

Thr	Thr	Leu	Ile	Thr	Asn	Leu	Ser	Ser	Val	Leu	Lys	Asp	Glu	Ala	Val
65					70					75					80

Trp	Glu	Lys	Pro	Phe	Arg	Phe	His	Pro	Glu	His	Phe	Leu	Asp	Ala	Gln
				85					90					95	

Gly	His	Phe	Val	Lys	Pro	Glu	Ala	Phe	Leu	Pro	Phe	Ser	Ala	Gly	Arg
			100					105					110		

Arg	Ala	Cys	Leu	Gly	Glu	Pro	Leu	Ala	Arg	Met	Glu	Leu	Phe	Leu	Phe
		115					120					125			

Phe	Thr	Ser	Leu	Leu	Gln	His	Phe	Ser	Phe	Ser	Val	Pro	Thr	Gly	Gln
	130					135					140				

Pro	Arg	Pro	Ser	His	His	Gly	Val	Phe	Ala	Phe	Leu	Val	Ser	Pro	Ser
145					150					155					160

4607

Pro Tyr Glu Leu Cys Ala Val Pro Arg Arg Met Gly Tyr Leu Val Pro
 165 170 175

Ser Leu Leu Pro Xaa Gln Arg Xaa
 180

<210> 5126

<211> 84

<212> PRT

<213> Homo sapiens

<400> 5126

Ala Gln Val Ser Phe Ser Pro Trp Met Ala Ser Ala Ala Pro Gly Arg
 1 5 10 15

Pro His Leu Val Leu Tyr Cys Glu Ser Leu Ala Thr Gln Val Arg Ser
 20 25 30

Gly Pro Gly Pro Arg Met Ala Ser Val Ala Arg Lys Tyr Ala Lys Glu
 35 40 45

Glu Val Asn Pro Ile Ala Gly Leu Glu Asp Ser Asp Gln Thr Thr Arg
 50 55 60

Gly Leu Leu Asn Lys Gly Arg Arg Cys Pro Cys Leu Met Gly Leu Ala
 65 70 75 80

Trp Gly Gly Gly

<210> 5127

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5127

Arg Pro Pro Thr Thr Thr Lys Phe Ala Xaa Ala Arg Gln Met Ala Gly

4608

1 5 10 15
 Lys Gln Ala Val Ser Xaa Ser Gly Lys Trp Leu Asp Gly Ile Arg Lys
 20 25 30
 Trp Tyr Tyr Asn Ala Ala Gly Phe Asn Lys Leu Gly Leu Met Arg Asp
 35 40 45
 Asp Thr Ile Tyr Glu Asp Glu Asp Val Lys Glu Ala Ile Arg Arg Leu
 50 55 60
 Pro Glu Asn Leu Tyr Asn Asp Arg Met Phe Arg Ile Lys Arg Ala Leu
 65 70 75 80
 Asp Leu Asn Leu Lys His Gln Ile Leu Pro Lys Glu Gln Trp Thr Lys
 85 90 95
 Tyr Glu Glu Glu Asn Phe Tyr Leu Glu Pro Tyr Leu Lys Glu Val Ile
 100 105 110
 Arg Glu Arg Lys Glu Arg Glu Glu Trp Ala Lys Lys
 115 120

<210> 5128

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5128

Tyr Gln Leu Gln Ala Gly Arg Glu Ser Leu Gln His Gly Pro Lys Met
 1 5 10 15
 Leu Ser Leu Gln Thr Gly Glu Gly Gln Val Gly Ser His Ser Ser Glu
 20 25 30
 Ser Leu Tyr Tyr Thr Ile Glu Ser Tyr Val Phe Ser Arg Phe Gly Val
 35 40 45
 Glu Ala Ile His Ile Tyr Glu Glu Ser Gln Ala Gln Glu Gln
 50 55 60

<210> 5129

<211> 49

<212> PRT

<213> Homo sapiens

<220>

4609

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5129

Phe	Lys	Trp	Val	Pro	Gln	Asn	Leu	Val	Val	Ile	Leu	Leu	Gly	Ile	Phe
1				5					10					15	

Val	Gln	Tyr	Ile	Ala	Leu	Xaa	Ser	Ser	Pro	Thr	Phe	Ser	Pro	Leu	Arg
			20					25					30		

Lys	His	Leu	His	Phe	Leu	Ser	Ser	Pro	Asn	Trp	Glu	Asn	Met	Gln	Ile
		35					40					45			

Leu

<210> 5130

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5130

Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Asn	Lys	Cys
1				5					10					15	

Xaa	Val	Xaa	Phe	Ile	Thr	Asn	Ile	Asn	Ile	Ile	Phe	Leu	Leu	Phe	Ile
				20				25					30		

Leu	Tyr	Ala	Ser	Phe	Tyr	Thr	Phe	Thr	His	Thr	Lys	Asn	Ile	Lys	Asn
			35				40					45			

Ile	Ser	Asn	Tyr	Ser	Ile	Leu	Val	Glu	Phe	Ser	Leu	Lys
		50				55					60	

<210> 5131

<211> 58

4610

<212> PRT

<213> Homo sapiens

<400> 5131

Ile Tyr Val Lys His Lys Pro Leu Ile Phe Leu Lys Lys Ser Arg Leu
 1 5 10 15

Leu Phe Phe His Ile Ile Ser Glu Pro Phe Ser Ser Phe Ala Cys Pro
 20 25 30

Leu Leu Gln Asn His Thr Asp Phe Val Leu His Phe Ile His His Leu
 35 40 45

Leu Lys Cys Pro Leu Lys Cys Asn Gly Ile
 50 55

<210> 5132

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5132

Asn Ala Lys Ser Gln Met Tyr Leu Ser Met Asn Phe Asp Ala Cys Thr
 1 5 10 15

His Leu Tyr Asn Ser Asn His Tyr Xaa Asp Val Glu His Asp His His
 20 25 30

Thr Arg Gly Pro Pro Ala Pro Ser Gln Leu Ile Leu Ile Ser Thr Pro
 35 40 45

Glu Ser Asn His Ser Ser Asp Phe Phe His His Arg Leu Val
 50 55 60

<210> 5133

<211> 70

<212> PRT

<213> Homo sapiens

<400> 5133

Arg Lys Pro Leu Trp Cys Leu Asn Asp Lys Tyr Ala Asp Ala Thr Leu
 1 5 10 15

4611

Leu Cys Leu Met Tyr Gly Ala Leu Gly Gln Leu Phe Asn Ile Lys Gln
 20 25 30
 Leu Arg Thr Cys Phe Arg Lys Cys Cys Ser Phe Ala Leu His Ala Lys
 35 40 45
 Val Leu Gly Lys Lys Leu Thr Ile Cys Lys Asn Ile Asp Ala Gln Ala
 50 55 60
 His Lys Glu Phe Ile Leu
 65 70

<210> 5134
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 5134
 Lys Leu Pro Asn Phe Tyr Gln Leu Glu Gly His Pro Trp Val Phe Val
 1 5 10 15
 Arg Ser Tyr Leu Met Ser Leu Cys Leu Gly Asp Ser Ala Gly Trp Ser
 20 25 30
 Leu Gly Pro Gly Gly Pro Ser Pro Gly Val Cys Arg Trp Thr Arg Ser
 35 40 45
 Pro Thr Gly Asp Ile Asn Leu Arg Val Ala Ser Leu Glu Thr Gly Thr
 50 55 60
 Trp Ala Ala Leu Phe Pro Ser Pro Leu Leu Arg Gly Leu Gly Arg Cys
 65 70 75 80
 Cys Phe His Ala Ala Ser Thr Ile Thr Leu Gly Phe Leu Asp Gly Lys
 85 90 95

<210> 5135
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 5135
 His Asp Leu Gly Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Arg Phe

4612

1	5	10	15
Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Arg Pro Pro Ser			
	20	25	30
Arg Pro Gly Asn Phe Phe Val Leu Leu Val Glu Thr Val Ile His Tyr			
	35	40	45
Val Gly Gln Ala Ser His Glu Leu Leu Thr Ser			
	50	55	

<210> 5136

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5136

Gly Phe Ile Gln Arg Ser Asn Phe Leu Xaa Xaa Gln Lys Ile His Thr
1 5 10 15

Glu Glu Lys Leu Tyr Glu Cys Ser Gln Tyr Gly Arg Asp Phe Asn Ser
20 25 30

Thr Thr Asn Val Lys Asn Asn Gln Arg Val His Gln Glu Gly Leu Ser
35 40 45

Leu Ser Lys Ala Pro Ile His Leu Gly Glu Arg Ser Val Asp Lys Gly
50 55 60

Glu His Thr Gly Asn Leu
65 70

<210> 5137

<211> 78

<212> PRT

<213> Homo sapiens

4613

<400> 5137

```

Pro Val Ser Phe Tyr Leu Pro Leu Pro Phe Trp Met Lys Met Leu Ile
  1              5              10              15

Val Gly His Phe Leu Ala Arg Thr Ala Leu Val Pro Leu Thr His Lys
              20              25              30

Thr Arg Leu Leu Ser Phe Ile Asp Thr Ser Ile Lys Lys Arg Phe Lys
      35              40              45

Asp Arg Ala Arg Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala
      50              55              60

Glu Ala Gly Gly Ser Pro Glu Val Gly Ser Ser Arg Pro Ala
      65              70              75

```

<210> 5138

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5138

```

Ile Pro Arg Leu Leu Cys Ser Thr Gly Gln Thr Ser Trp Ser Ile Cys
  1              5              10              15

Val Gly Glu Thr Trp Glu Lys Ala Lys Thr Met Cys Glu Cys Tyr Asp
      20              25              30

Tyr Leu Phe Asp Ile Ala Val Ser Met Lys Lys Val Gly Leu Asp Pro
      35              40              45

Ser Gln Leu Pro Val Gly Glu Asn Gly Ile Val
      50              55

```

<210> 5139

<211> 56

<212> PRT

<213> Homo sapiens

<400> 5139

```

Asp Phe Phe Ser Leu Tyr Phe His Pro Thr Asn His Leu Glu Ser Gly
  1              5              10              15

Ile Lys Gly Ile Asn Gln Glu Lys Thr Glu Gly Gln Glu Thr Glu Pro
      20              25              30

Asn Lys Gly Asp Pro Ser Gln Gly Ala Trp Glu Ser Ala Gly Leu Asp

```

4614

35

40

45

Ala Pro Pro Ser Ser Ala Ser Tyr
 50 55

<210> 5140

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5140

Thr Gly Leu Glu Thr Leu Gly Ser Gln His Leu Tyr Phe Leu Val Arg
 1 5 10 15

Lys Trp Ala Trp Arg Cys Trp Glu Ile Lys Arg Gly Val Gly Glu Asp
 20 25 30

Pro Val Ser Val Ser Ser Cys Val Val Asp Val Asn Leu Ala Val Asn
 35 40 45

Val Ala Gly Cys Val Ser Cys Leu Leu Ser Asn Cys Trp Leu Pro Arg
 50 55 60

His Ser Val Leu Leu Xaa Phe Ser Glu Phe His
 65 70 75

<210> 5141

<211> 33

<212> PRT

<213> Homo sapiens

<400> 5141

His Ala Ser Ser Leu Gly Asp Arg Val Arg Leu Phe Leu Lys Ile Lys
 1 5 10 15

Thr Lys Asn Lys Phe Leu Leu Glu Val Gly Trp Arg Trp Gly Ala Arg
 20 25 30

Ile

4615

<210> 5142
 <211> 42
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5142
 Met Tyr Ser Lys Val Trp Leu Pro Phe Arg Ser Leu Gly Gly Ala Val
 1 5 10 15
 Leu Asn Ser Phe Ser Asn Arg Ala Thr Phe Tyr Phe Leu Ile Glu Leu
 20 25 30
 Leu Phe Asn Phe Tyr Phe Leu Ile Gly Xaa
 35 40

<210> 5143
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 5143
 Ala Gly Pro Glu Leu Pro Pro Leu Gln Val Gln Met His Arg Cys Ser
 1 5 10 15
 Cys Pro Ser Val Ser Ser Gln Gly Cys Lys Arg Arg Thr His Pro Ser
 20 25 30
 Arg Lys Gln Pro Glu Pro Gly Thr Gly Cys Ala Lys Glu His Cys Tyr
 35 40 45
 Gln Val Glu Glu Arg Gly Leu Pro Cys Thr Gln Asp Val Glu Ser Leu
 50 55 60
 Leu Arg Ser Glu Gln Lys Ile Lys Asn Lys Ser Leu Leu Lys Gly Leu
 65 70 75 80
 Ile Gly Gln Val Cys Phe Ser Leu Glu Gln Cys Phe Ala Leu Glu Asn
 85 90 95
 Cys Lys Ile Tyr Val Met Thr Gln Tyr Ile Cys Val Arg Thr Tyr Met
 100 105 110
 Ile Gly Ile Lys Cys Leu

4616

115

<210> 5144

<211> 70

<212> PRT

<213> Homo sapiens

<400> 5144

Ser Gln Lys Gly Arg Val Ile Ile Lys Glu Glu Ser Asp Gln Glu Ser
1 5 10 15

Lys Ile Asp Arg Glu Ser Arg Leu Leu Glu Lys Trp Glu Asn Tyr Arg
20 25 30

Thr Asp Ser Ala Arg Arg Arg Gln Ala Gly Glu Glu Arg Pro Ser Gln
35 40 45

Ser Ser Thr Cys Ala Asn Arg Lys Cys Val Arg Gly Phe Leu Glu Leu
50 55 60

Thr Gly Ala Gly Asp His
65 70

<210> 5145

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5145

Val Met Asn Ile Arg Ile Ile Ala Leu Ser Ala Gly Ser Phe Thr Arg
1 5 10 15

4617

Gln Glu Phe Xaa Asn Cys Pro Ile Asn Ile Cys Leu Xaa Ser Cys Lys
 20 25 30

Lys Asp Xaa Phe Ile Phe Cys Ile Phe Ile Thr
 35 40

<210> 5146

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5146

Phe Gly Ser Leu Lys Met Leu Cys Gly Ala Lys Gln Ile Val Cys Gln
 1 5 10 15

Met Trp Pro Ser Ser Cys Gln Ser Cys Leu Tyr Gln Asp Ala Ser Leu
 20 25 30

Leu Thr Asn Ser His Ile Ala Thr Gly Val Glu Thr Val Leu Ala Thr
 35 40 45

Lys Leu Xaa Gly Phe His
 50

<210> 5147

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

4618

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5147

Trp	Tyr	Pro	Xaa	Pro	Pro	Gly	Xaa	Asp	Xaa	Asp	Gly	Pro	Lys	Ser	His
1				5					10					15	

Leu	Gly	Xaa	Arg	Leu	Tyr	Gly	Lys	Xaa	Gly	Leu	Ser	Asn	Tyr	Phe	Gln
			20					25					30		

Tyr	Ser	Ile	Val	Phe	His	Cys	Pro	Phe	Val	Phe	His	Lys	Leu	Asn	Asp
		35					40					45			

Cys	Leu	Ile	Phe	Pro	Lys	Ile	Tyr	Phe
	50					55		

<210> 5148

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5148

Val	Phe	Glu	Pro	Thr	Ser	His	Ala	Thr	Ser	His	Lys	Xaa	Thr	Tyr	His
1				5					10					15	

Leu	Arg	Thr	Ser	Ser	Ala	Lys	Met	Pro	Glu	Asn	Ile	Gln	Ser	Ser	Trp
			20					25					30		

Gln	Met	Thr	Gln	Gly	Ser	Leu	Ala	Leu	Leu	Thr	Ile	Phe	Leu	Ala	Asn
		35					40					45			

Leu	Asp	Trp	Lys	Gly	His	Leu	Gln	His	Cys	Pro	Gly	Ala	Asn	Thr	Leu
	50					55					60				

Phe	His	Cys	Leu	Cys	His	Ile	Met	Met	Pro	Ala	Leu	Ala	Ser	Trp	Trp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

[illegible]

<210> 5150

4620

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5150

Ala	Leu	Leu	Cys	Arg	Ser	Ser	Ser	Tyr	Ile	Gly	Pro	Phe	Lys	Lys	Leu
1				5					10				15		

Pro	Ala	Glu	Ile	Pro	Gly	Val	Ile	Cys	Leu	Glu	His	Xaa	Pro	Leu	Thr
		20					25					30			

Ser	Ser	Thr	His	Leu	Leu	Ala	Ala	Pro	Arg	His	Ser	Ser	Asn	Leu	Ile
		35				40					45				

Leu	Asn	Val	Ile	Ser	Leu	Lys	Lys	Pro	Phe	Leu	Thr	Gln	Ser	Lys	Ile
	50					55				60					

Ser	Thr	Phe	Gly	Tyr	Ser	Leu	Ser	Gln	His	Leu	Asp	Phe	Phe	Pro	Ser
65					70					75					80

<210> 5151

<211> 29

<212> PRT

<213> Homo sapiens

<400> 5151

Ser	Phe	Cys	Leu	Tyr	Lys	Ser	Thr	Cys	Ser	Cys	Ala	Asn	Pro	Ser	Val
1				5					10					15	

Asp	Ser	Trp	Gln	His	Glu	Ser	Leu	Ile	Pro	Gly	Tyr	Asn
		20						25				

<210> 5152

<211> 181

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4621

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5152

Val	Ser	Pro	Ser	Pro	Pro	Trp	Thr	Pro	Pro	Gly	Ala	Asp	Arg	Pro	Met
1				5					10					15	

Glu	Ser	Gln	Gly	Val	Pro	Pro	Gly	Pro	Tyr	Arg	Ala	Thr	Lys	Leu	Trp
			20					25					30		

Asn	Glu	Val	Thr	Thr	Ser	Phe	Arg	Ala	Gly	Met	Pro	Leu	Arg	Lys	His
			35				40					45			

Arg	Gln	His	Phe	Lys	Lys	Tyr	Gly	Asn	Cys	Phe	Thr	Ala	Gly	Glu	Ala
	50					55					60				

Val	Asp	Trp	Leu	Tyr	Asp	Leu	Leu	Arg	Asn	Asn	Ser	Asn	Phe	Gly	Pro
65					70					75					80

Glu	Val	Thr	Arg	Gln	Gln	Thr	Ile	Gln	Leu	Leu	Arg	Lys	Phe	Leu	Lys
				85					90					95	

Asn	His	Val	Ile	Glu	Asp	Ile	Lys	Gly	Arg	Trp	Gly	Ser	Glu	Asn	Val
			100					105					110		

Asp	Asp	Asn	Asn	Gln	Leu	Phe	Arg	Phe	Pro	Ala	Thr	Ser	Pro	Leu	Lys
		115					120					125			

Thr	Leu	Pro	Arg	Arg	Tyr	Pro	Glu	Leu	Arg	Lys	Asn	Asn	Ile	Glu	Asn
	130					135					140				

Phe	Ser	Lys	Asp	Lys	Asp	Ser	Ile	Phe	Lys	Leu	Arg	Asn	Leu	Ser	Arg
145					150					155					160

Arg	Thr	Pro	Lys	Arg	His	Gly	Leu	His	Leu	Ser	Xaa	Glu	Asn	Gly	Glu
				165					170					175	

Lys	Ile	Asn	Met	Lys
			180	

<210> 5153

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

4622

<400> 5153

Asn Lys Tyr Asn Met Tyr Ile Pro Asp Leu Leu Ser Ile Leu Tyr Lys
 1 5 10 15

Val Ala Met Thr Lys Gly Ala Asn Lys Tyr Tyr Ile Ile Tyr Leu Ala
 20 25 30

Phe Leu Leu His Glu Met Met Trp Val Xaa
 35 40

<210> 5154

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5154

Glu Val Gly Phe Ser Leu Pro Ser Pro Gly Pro Val Cys Pro Tyr Pro
 1 5 10 15

Arg Pro Ala Ser Cys Ala Gln Ile Leu Phe Cys Leu Trp Lys Leu Leu
 20 25 30

Asp His Pro Arg Ser Ala Ala Cys Pro Asp Pro Tyr Pro Arg Ala Ser
 35 40 45

Leu Ser Ser Trp Glu Ala Gly Gln Ala Pro Val Arg Phe Arg Cys Ala
 50 55 60

Leu Cys Leu Ser Leu Asp Ser Arg Ala Asp Glu Pro Gln His His His
 65 70 75 80

Pro Ala Thr Tyr Lys Val Gly Asp Leu Gly Leu Gly Ser Gln Ala Gln
 85 90 95

Thr Gly Gly Pro His Ser Pro Leu Gly Pro Leu Pro Thr Pro Val Pro
 100 105 110

Ser Val Pro Gln Ser Gly Gly Ala Ser Arg Ala Ile Ser Asp Xaa Ala
 115 120 125

Gly Pro Arg
 130

4623

<210> 5155

<211> 65

<212> PRT

<213> Homo sapiens

<400> 5155

Ala	Lys	Pro	Leu	Lys	Leu	Lys	His	Ile	Ser	Tyr	Leu	Lys	His	Leu	Gly
1				5					10					15	

Asn	Thr	Thr	Val	Lys	Tyr	Leu	Ser	Asn	Ile	Gln	Tyr	Met	Glu	Phe	Ile
			20					25					30		

Pro	Thr	Phe	Val	Cys	Ile	Ser	Ile	Cys	Lys	Leu	Leu	Leu	Arg	Arg	Ile
		35					40					45			

Glu	Ser	Leu	Asp	Tyr	Phe	Arg	Ile	Gln	Leu	Leu	Gln	Phe	Ser	Ile	Val
	50					55					60				

Asp

65

<210> 5156

<211> 31

<212> PRT

<213> Homo sapiens

<400> 5156

Val	Gly	Gly	Pro	Gln	Ile	Cys	Arg	Val	Cys	Gly	Asp	Arg	Pro	Trp	Tyr
1				5					10					15	

His	Phe	Asn	Val	Met	Thr	Cys	Glu	Gly	Cys	Lys	Gly	Phe	Phe	Arg
			20					25					30	

<210> 5157

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4624

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5157

Ala	Asp	Ala	Trp	Ala	Arg	Ser	Phe	Leu	Val	Asp	Ser	Leu	Val	Leu	Arg
1				5				10					15		

Glu	Ala	Gly	Glu	Lys	Lys	Ala	Pro	Glu	Gly	Ser	Pro	Pro	Pro	Leu	Phe
			20					25					30		

Pro	Tyr	Ala	Val	Pro	Pro	Pro	His	Ala	Leu	His	Gly	Leu	Ser	Pro	Gly
		35					40					45			

Ala	Cys	His	Ala	Arg	Lys	Ala	Gly	Leu	Leu	Cys	Val	Cys	Pro	Leu	Cys
	50					55					60				

Val	Thr	Ala	Ser	Gln	Xaa	His	Gly	Pro	Pro	Gly	Pro	Pro	Arg	Cys	Leu
65					70					75					80

Tyr	Ser	Arg	Leu	Pro	Ser	His	Pro	Ser	Ala	Arg	Ser	Thr	Ala	Arg	Ala
				85					90					95	

Pro	Gly	Pro	Xaa	Ala	Leu	Cys	Xaa	Val	Ala	Arg	Gly
			100					105			

<210> 5158

<211> 438

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (397)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (413)

<223> Xaa equals any of the naturally occurring L-amino acids

4625

<220>

<221> SITE

<222> (428)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5158

Glu	Ala	Gln	Ala	Tyr	Thr	Ala	Tyr	Leu	Ser	Gly	Met	Leu	Arg	Phe	Glu
1				5				10						15	
His	Gln	Glu	Trp	Lys	Ala	Ala	Ile	Glu	Ala	Phe	Asn	Lys	Cys	Lys	Thr
			20					25					30		
Ile	Tyr	Glu	Lys	Leu	Ala	Ser	Ala	Phe	Thr	Glu	Glu	Gln	Ala	Val	Leu
		35					40					45			
Tyr	Asn	Gln	Arg	Val	Glu	Glu	Ile	Ser	Pro	Asn	Ile	Arg	Tyr	Cys	Ala
	50						55				60				
Tyr	Asn	Ile	Gly	Asp	Gln	Ser	Ala	Ile	Asn	Glu	Leu	Met	Gln	Met	Arg
65					70					75					80
Leu	Arg	Ser	Gly	Gly	Thr	Glu	Gly	Leu	Leu	Ala	Glu	Lys	Leu	Glu	Ala
				85				90						95	
Leu	Ile	Thr	Gln	Thr	Arg	Ala	Lys	Gln	Ala	Ala	Thr	Met	Ser	Glu	Val
			100					105					110		
Glu	Trp	Arg	Gly	Arg	Thr	Val	Pro	Val	Lys	Ile	Asp	Lys	Val	Arg	Ile
		115					120					125			
Phe	Leu	Leu	Gly	Leu	Ala	Asp	Asn	Glu	Ala	Ala	Ile	Val	Gln	Ala	Glu
	130					135					140				
Ser	Glu	Glu	Thr	Lys	Glu	Arg	Leu	Phe	Glu	Ser	Met	Leu	Ser	Glu	Cys
145					150					155					160
Arg	Asp	Ala	Ile	Gln	Val	Val	Arg	Glu	Glu	Leu	Lys	Pro	Asp	Gln	Lys
				165					170					175	
Gln	Arg	Asp	Tyr	Ile	Leu	Glu	Gly	Glu	Pro	Gly	Lys	Val	Ser	Asn	Leu
			180					185					190		
Gln	Tyr	Leu	His	Ser	Tyr	Leu	Thr	Tyr	Ile	Lys	Leu	Ser	Thr	Ala	Ile
		195					200					205			
Lys	Arg	Asn	Glu	Asn	Met	Ala	Lys	Gly	Leu	Gln	Arg	Ala	Leu	Leu	Gln
	210					215					220				
Gln	Gln	Pro	Glu	Asp	Asp	Ser	Lys	Arg	Ser	Pro	Arg	Pro	Gln	Asp	Leu
225					230					235					240

4626

```

Ile Arg Leu Tyr Asp Ile Ile Leu Gln Asn Leu Val Glu Leu Leu Gln
      245                      250                      255

Leu Pro Gly Leu Glu Glu Asp Lys Ala Phe Gln Lys Glu Ile Gly Leu
      260                      265                      270

Lys Thr Leu Val Phe Lys Ala Tyr Arg Cys Phe Phe Ile Ala Gln Ser
      275                      280                      285

Tyr Val Leu Val Lys Lys Trp Ser Glu Ala Xaa Val Leu Tyr Asp Arg
      290                      295                      300

Val Leu Lys Tyr Ala Asn Glu Val Asn Ser Asp Ala Gly Ala Phe Lys
305                      310                      315                      320

Asn Ser Leu Lys Asp Leu Pro Asp Val Gln Glu Leu Ile Thr Gln Val
      325                      330                      335

Arg Ser Glu Lys Cys Ser Leu Gln Ala Ala Ala Ile Leu Asp Ala Asn
      340                      345                      350

Asp Ala His Gln Thr Glu Thr Ser Ser Ser Gln Val Lys Asp Asn Lys
      355                      360                      365

Pro Leu Val Glu Arg Phe Glu Thr Phe Cys Leu Gly Pro Phe Pro Cys
      370                      375                      380

Ser Pro Ser Lys Pro Thr Leu Trp His Phe Pro Pro Xaa Phe Gln Pro
385                      390                      395                      400

Phe Pro Trp Gln Gly Phe Cys Ser Leu Asp Trp Ala Xaa Lys Pro Cys
      405                      410                      415

Gly Leu Phe Pro Pro Leu Glu Gly Gln Val Trp Xaa Arg Lys Asp Gln
      420                      425                      430

Glu Trp Ala His Trp Val
      435

```

<210> 5159

<211> 275

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

4627

<220>

<221> SITE

<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (184)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (265)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5159

Asp	Pro	Leu	Val	Leu	Glu	Arg	Arg	Ser	Gly	Asp	Arg	Asp	Leu	Glu	Pro
1				5					10				15		

Asp	Trp	Leu	Ala	Gln	Leu	Arg	Arg	Gln	Leu	Glu	Gln	Lys	Val	Ala	Gly
			20					25					30		

Asp	Ile	Gly	Asp	Pro	His	Pro	Thr	Arg	Ser	Asp	Ile	Ser	Gly	Ala	Gly
		35					40					45			

Gly	Thr	Thr	Thr	Glu	Asn	Thr	Phe	Tyr	Gln	Asp	Phe	Ser	Gly	Cys	Gln
	50					55					60				

Gly	Tyr	Ser	Glu	Ala	Pro	Gly	Tyr	Arg	Ser	Ala	Leu	Trp	Leu	Thr	Pro
65					70					75					80

Glu	Gln	Thr	Cys	Leu	Leu	Gln	Pro	Ser	Pro	Gln	Gln	Pro	Phe	Pro	Leu
				85					90					95	

Gln	Pro	Gly	Ser	Tyr	Pro	Ala	Gly	Gly	Gly	Ala	Gly	Gln	Thr	Gly	Thr
			100					105					110		

Pro	Arg	Pro	Phe	Tyr	Ser	Val	Pro	Glu	Thr	His	Leu	Pro	Gly	Thr	Gly
		115					120					125			

Ser	Ser	Val	Ala	Val	Thr	Glu	Ala	Thr	Gly	Gly	Thr	Val	Trp	Glu	Glu
		130				135					140				

Met	Leu	Gln	Thr	His	Leu	Gly	Pro	Gly	Xaa	Asn	Thr	Val	Ser	Gln	Glu
145					150					155					160

Thr	Ser	Gln	Pro	Pro	Asp	Gly	Gln	Glu	Val	Ile	Ser	Lys	Pro	Gln	Thr
				165				170						175	

Pro	Leu	Ala	Ala	Xaa	Pro	Arg	Xaa	Phe	Leu	Arg	Val	Pro	Pro	Val	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4628

180	185	190
Pro Arg Arg Met Arg Arg Ser	Pro Leu Met Arg Leu Ile Lys Thr Leu	
195	200	205
Pro Glu Ile Leu Pro Arg Glu Ala Ser Ser Glu Met Gly Arg Ser Ile		
210	215	220
Gln Arg Ala Gln Gly Leu Ala Gly Ser Ala Gly Phe Asp Arg Ser Pro		
225	230	235 240
Pro Arg Thr His Pro Pro Leu Glu Thr Arg Thr Pro Gln Thr Ala Leu		
	245	250 255
Thr Leu Arg Arg Pro Pro Glu His Xaa Leu Pro Thr Arg Leu Ala Trp		
	260	265 270
Ala Phe His		
275		

<210> 5160

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5160

Leu Asp Val Asn Phe Gly Asp Thr Val Gln His Thr Pro Pro Arg Ala

1

5

10

15

4629

Pro Arg Gly Gln Ser Gly Trp Lys Ala Glu Gly Pro Ser Thr Val Glu
 20 25 30
 Ser Pro Arg Leu Arg Ser Asp Ser Leu Val Xaa Glu Val Phe Pro Gly
 35 40 45
 Leu Gly Gln Gly Pro Val Ser Pro Glu Val Pro Gly Cys Pro Pro Ser
 50 55 60
 Pro His Ser His Val Pro His Ala Gly Gln Ala Leu Leu Ser Arg Asp
 65 70 75 80
 Thr Ala Phe Met Gly Arg His Arg Pro Leu Ser Gln Glu Pro Glu Val
 85 90 95
 Gly Gly Leu Ala Ala Ser Gln Arg Arg Gly Lys Ile Pro Phe Pro Arg
 100 105 110
 Ala Phe Gly His Trp Gly Arg Pro Trp Ala Arg Gln Gln Asp Gly Phe
 115 120 125
 Xaa Thr Gly Xaa Val Ser Leu Gln Pro Arg Gly Gly Trp Phe Pro Trp
 130 135 140
 Xaa Asn
 145

<210> 5161
 <211> 163
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5161
 Val Lys Ile Glu Pro Glu Asp Leu Asp Ile Ile Gln Val Thr Val Pro
 1 5 10 15
 Asp Pro Ser Pro Thr Ser Glu Glu Met Thr Asp Ser Met Pro Gly His
 20 25 30
 Leu Pro Ser Glu Asp Ser Gly Tyr Gly Met Glu Met Leu Thr Asp Lys
 35 40 45
 Gly Leu Ser Glu Asp Ala Arg Pro Glu Xaa Arg Pro Val Glu Asp Ser
 50 55 60

4630

His Gly Asp Val Ile Arg Pro Leu Arg Lys Gln Val Glu Leu Leu Phe
 65 70 75 80
 Asn Thr Arg Tyr Ala Lys Ala Ile Gly Ile Ser Glu Pro Val Lys Val
 85 90 95
 Pro Tyr Ser Lys Phe Leu Met His Pro Glu Glu Leu Phe Val Val Gly
 100 105 110
 Leu Pro Glu Gly Ile Ser Leu Arg Arg Pro Asn Cys Phe Gly Ile Ala
 115 120 125
 Lys Leu Arg Lys Ile Leu Glu Ala Ser Asn Ser Ile Gln Phe Val Ile
 130 135 140
 Lys Arg Pro Glu Leu Leu Thr Glu Glu Ser Lys Ser Pro Ser Trp Ile
 145 150 155 160
 Val Asn Glu

<210> 5162

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5162

Lys Pro Thr Cys Asn Glu Leu Ile Lys Thr Ile Ile Ile Gln His Glu
 1 5 10 15
 Asn Ile Phe Pro Ser Pro Arg Xaa Leu Glu Gly Pro Val Tyr Ser Arg
 20 25 30
 Gly Gly Ser Met Glu Asp Tyr Cys Asp Ser Pro His Gly Glu Thr Thr
 35 40 45
 Ser Val Glu Asp Ser Thr Gln Asp Val Thr Ala Glu His His Thr Ser
 50 55 60
 Asp Asp Glu Cys Glu Pro Ile Glu Ala Ile Ala Lys Phe Asp Tyr Val
 65 70 75 80
 Gly Arg Thr Ala Arg Glu Leu Ser Phe Lys Lys Gly Ala Ser Leu Leu

4631

	85		90		95
Leu Tyr Gln Arg Ala Ser Asp Asp Trp Trp Glu Gly Arg His Asn Gly					
	100		105		110
Ile Asp Gly Leu Ile Pro His Gln Tyr Ile Val Val Gln Asp Thr Glu					
	115		120		125
Asp Gly Val Val Glu Arg Ser Ser Pro Lys Ser Glu Ile Glu Val Ile					
	130		135		140
Ser Glu Pro Pro Glu Glu Lys Val Thr Ala Arg Ala Gly Ala Ser Cys					
	145		150		155
Pro Ser Gly Gly His Val Ala Arg Tyr Leu Ser Cys Lys His Gln Gln					
	165		170		175
Ala Lys Glu Ala Ser Arg Ile Trp Glu Ala Ser Glu Asn Phe Ser Glu					
	180		185		190

<210> 5163

<211> 319

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5163

Ala Arg Ala Arg Ala Glu Phe Gly Thr Ser Ser Thr Asn Leu His Leu
1 5 10 15

Glu Ser Glu Leu Asp Ala Leu Ala Ser Leu Glu Asn His Val Lys Thr
20 25 30

4632

Glu Pro Ala Asp Met Asn Glu Ser Cys Lys Gln Ser Gly Xaa Ser Ser
 35 40 45

Leu Val Asn Gly Xaa Ser Pro Ile Arg Ser Leu Met His Arg Ser Ala
 50 55 60

Arg Ile Gly Gly Xaa Gly Asn Asn Lys Asp Asp Asp Pro Asn Glu Asp
 65 70 75 80

Trp Cys Ala Val Cys Gln Asn Gly Gly Asp Leu Leu Cys Cys Glu Lys
 85 90 95

Cys Pro Lys Val Phe His Leu Thr Cys His Val Pro Thr Leu Leu Ser
 100 105 110

Phe Pro Ser Gly Asp Trp Ile Cys Thr Phe Cys Arg Asp Ile Gly Lys
 115 120 125

Pro Glu Val Glu Tyr Asp Cys Asp Asn Leu Gln His Ser Lys Lys Gly
 130 135 140

Lys Thr Ala Gln Gly Leu Ser Pro Val Asp Gln Arg Lys Cys Glu Arg
 145 150 155 160

Leu Leu Leu Tyr Leu Tyr Cys His Glu Leu Ser Ile Glu Phe Gln Glu
 165 170 175

Pro Val Pro Ala Ser Ile Pro Asn Tyr Tyr Lys Ile Ile Lys Lys Pro
 180 185 190

Met Asp Leu Ser Thr Val Lys Lys Lys Leu Gln Lys Lys His Ser Gln
 195 200 205

His Tyr Gln Ile Pro Asp Asp Phe Val Ala Asp Val Arg Leu Ile Phe
 210 215 220

Lys Asn Cys Glu Arg Phe Asn Glu Met Met Lys Val Val Gln Val Tyr
 225 230 235 240

Ala Asp Thr Gln Glu Ile Asn Leu Lys Ala Asp Ser Glu Val Ala Gln
 245 250 255

Ala Gly Lys Ala Val Ala Leu Tyr Phe Glu Asp Lys Leu Thr Glu Ile
 260 265 270

Tyr Ser Asp Arg Thr Phe Ala Pro Leu Pro Glu Phe Glu Gln Glu Glu
 275 280 285

Asp Asp Gly Glu Val Thr Glu Asp Ser Asp Glu Asp Phe Ile Gln Pro
 290 295 300

4633

Arg Arg Lys Arg Leu Lys Ser Asp Glu Arg Pro Val His Ile Lys
 305 310 315

<210> 5164

<211> 187

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5164

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Xaa Gly Arg Ser Arg Thr
 1 5 10 15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Arg Thr Ser Gly Xaa
 20 25 30

Gly Asn Arg Ala Ala Asn Glu Glu Glu Thr Xaa Asn Lys Pro Lys Leu
 35 40 45

Asn Ile Gln Ile Lys Thr Leu Ala Asp Asp Val Arg Asp Arg Ile Thr
 50 55 60

Ser Phe Arg Lys Ser Thr Val Lys Lys Glu Lys Pro Leu Ile Gln His
 65 70 75 80

Pro Ile Asp Ser Gln Val Ala Met Ser Glu Phe Pro Ala Ala Gln Pro
 85 90 95

Leu Tyr Asp Glu Arg Ser Leu Asn Leu Ser Glu Lys Glu Val Leu Asp
 100 105 110

Leu Phe Glu Lys Met Met Glu Asp Met Asn Leu Asn Glu Glu Lys Lys
 115 120 125

4634

Ala Pro Leu Arg Asn Lys Asp Phe Thr Thr Lys Arg Glu Met Val Val
 130 135 140

Gln Tyr Ile Ser Ala Thr Ala Lys Ser Ile Val Gly Ser Lys Val Thr
 145 150 155 160

Gly Gly Leu Lys Asn Ser Lys His Glu Cys Thr Leu Ser Ser Gln Glu
 165 170 175

Tyr Val His Glu Leu Arg Ser Gly Ile Phe Arg
 180 185

<210> 5165

<211> 266

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (223)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5165

Thr His Thr Gly Glu Lys Ser Tyr Val Cys Ser Val Cys Gly Arg Gly
 1 5 10 15

Phe Ser Leu Lys Ala Asn Leu Leu Arg His Gln Arg Thr His Ser Gly
 20 25 30

Glu Lys Pro Phe Leu Cys Lys Val Cys Gly Arg Gly Tyr Thr Ser Lys
 35 40 45

Ser Tyr Leu Thr Val His Glu Arg Thr His Thr Gly Glu Lys Pro Tyr
 50 55 60

Glu Cys Gln Glu Cys Gly Arg Arg Phe Asn Asp Lys Ser Ser Tyr Asn
 65 70 75 80

Lys His Leu Lys Ala His Ser Gly Glu Lys Pro Phe Val Cys Lys Glu
 85 90 95

Cys Gly Arg Gly Tyr Thr Asn Lys Ser Tyr Phe Val Val His Lys Arg
 100 105 110

4635

Ile His Ser Gly Glu Lys Pro Tyr Arg Cys Gln Glu Cys Gly Arg Gly
 115 120 125
 Phe Ser Asn Lys Ser His Leu Ile Thr His Gln Arg Thr His Ser Gly
 130 135 140
 Glu Lys Pro Phe Ala Cys Arg Gln Cys Lys Gln Ser Phe Ser Val Lys
 145 150 155 160
 Gly Ser Leu Leu Arg His Gln Arg Thr His Ser Gly Glu Lys Pro Phe
 165 170 175
 Val Cys Lys Asp Cys Glu Arg Ser Phe Ser Gln Lys Ser Thr Leu Val
 180 185 190
 Tyr His Gln Arg Thr His Ser Gly Glu Lys Pro Phe Val Cys Arg Xaa
 195 200 205
 Met Trp Ala Arg Ile Tyr Ser Glu Val Asn Pro Trp Glu Thr Xaa Asp
 210 215 220
 His Thr Leu Arg Gly Glu Ala Phe Cys Val Gln Gly Cys Gly Gln Ala
 225 230 235 240
 Leu Ser Lys Ser Gln Leu His Phe His Gln Arg Thr His Ser Glu Glu
 245 250 255
 Lys Pro Tyr Gly Cys Arg Glu Cys Gly Arg
 260 265

<210> 5166

<211> 128

<212> PRT

<213> Homo sapiens

<400> 5166

Leu Phe Met Ser Leu Leu Glu Asp Thr Leu Ser Lys Gln Lys Asn Pro
 1 5 10 15
 Asp Val Arg Asn Ile Val Gln Gln Gln Phe Cys Gly Glu Tyr Ala Tyr
 20 25 30
 Val Thr Val Cys Asn Gln Cys Gly Arg Glu Ser Lys Leu Leu Ser Lys
 35 40 45
 Phe Tyr Glu Leu Glu Leu Asn Ile Gln Gly His Lys Gln Leu Thr Asp
 50 55 60
 Cys Ile Ser Glu Phe Leu Lys Glu Glu Lys Leu Glu Gly Asp Asn Arg

4636

65		70		75		80									
Tyr	Phe	Cys	Glu	Asn	Cys	Gln	Ser	Lys	Gln	Asn	Ala	Thr	Arg	Lys	Ile
				85					90					95	
Arg	Leu	Leu	Ser	Leu	Pro	Cys	Thr	Leu	Asn	Leu	Gln	Leu	Met	Arg	Phe
			100					105					110		
Val	Phe	Asp	Arg	Gln	Thr	Gly	His	Lys	Lys	Lys	Leu	Asn	Thr	Tyr	Ile
		115					120					125			

<210> 5167

<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5167

Ala	Gly	Gly	Gln	Arg	Gly	Gly	Ala	Glu	Ser	Glu	Arg	Gln	His	Leu	Gln
1				5					10					15	

Gln	Arg	Val	Leu	Gly	Glu	Leu	Cys	Ser	Arg	Asn	Thr	Gly	Gly	Asp	Ala
			20					25					30		

Ala	Gly	Ala	Gln	Arg	Glu	Asn	Ala	Thr	Arg	Arg	Thr	Ala	Gly	Thr	Leu
		35					40					45			

Ser	Leu	Glu	Ala	Ser	Gln	Ala	Leu	Lys	Glu	Lys	Ala	Glu	Leu	Gln	Ala
	50					55					60				

Gln	Leu	Ala	Ala	Leu	Ser	Thr	Lys	Leu	Gln	Ala	Gln	Val	Glu	Cys	Ser
65					70					75					80

4637

His Ser Ser Gln Gln Arg Gln Asp Ser Leu Ser Ser Glu Val Asp Thr
 85 90 95
 Leu Lys Gln Ser Cys Trp Asp Xaa Glu Arg Ala Met Xaa Asp Leu Ala
 100 105 110
 Glu His Ala Gly Xaa Lys Lys Cys Gln Leu Ala Ser Phe Gln Gln Arg
 115 120 125

<210> 5168

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5168

Asn Leu Thr Asn Val Met Tyr Val Thr Asn Pro Ser Gly Met Val Pro
 1 5 10 15

Pro Leu Leu Tyr Ile Lys Gly Phe Ile Pro Glu Lys Asn His Met Asn
 20 25 30

Val Met Phe Ala Glu Lys Pro Ser Ala Ile Met His His Ser Leu Asn
 35 40 45

Ile Lys Glu Tyr Ile Leu Glu Lys Ser Leu Leu Ser Lys Glu Cys Gly
 50 55 60

Lys Ala Phe Arg Gln Asn Ile His Leu Ala Ser His Leu Arg Ile His
 65 70 75 80

4638

Thr	Gly	Glu	Lys	Pro	Phe	Glu	Cys	Xaa	Glu	Cys	Gly	Lys	Ser	Phe	Ser
				85					90					95	
Ile	Ser	Ser	Gln	Leu	Ala	Thr	His	Gln	Arg	Ile	His	Thr	Xaa	Glu	Lys
			100					105					110		
Pro	Tyr	Glu	Cys	Lys	Val	Cys	Ser	Lys	Ala	Phe	Thr	Gln	Lys	Val	Xaa
		115					120					125			
Leu	His	Ser	Ser	Glu	Asn	Pro	Thr	Gly	Glu	Glu	Thr	Leu			
	130					135					140				

<210> 5169
 <211> 60
 <212> PRT
 <213> Homo sapiens

Met	Arg	Ser	His	Cys	Pro	Lys	Leu	Trp	Pro	Phe	Leu	Cys	Tyr	Lys	His
1				5					10					15	
Ala	Phe	Leu	Ser	Tyr	Lys	Val	Asn	Gln	Thr	Ile	Cys	Asn	Thr	Val	Leu
			20					25					30		
Gly	Cys	Asn	Leu	Cys	Phe	Cys	Ser	Thr	Val	Lys	Ile	Glu	Asn	Tyr	Val
		35					40					45			
Val	Cys	Thr	Val	Leu	Ile	Lys	Ile	Leu	Asp	Phe	Tyr				
	50					55					60				

<210> 5170
 <211> 154
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

Gln	Leu	Thr	Thr	Val	Arg	Arg	Leu	Leu	Ser	Glu	Lys	Ala	Thr	His	Val
1				5					10					15	
Asn	Thr	Arg	Asp	Glu	Asp	Glu	Xaa	Thr	Pro	Leu	His	Arg	Ala	Ala	Tyr
			20					25					30		

4639

Ser Gly His Leu Asp Ile Val Gln Glu Leu Ile Ala Gln Gly Ala Asp
 35 40 45
 Val His Ala Val Thr Val Asp Gly Trp Thr Pro Leu His Ser Ala Cys
 50 55 60
 Lys Trp Asn Asn Thr Arg Val Ala Ser Phe Leu Leu Gln His Asp Ala
 65 70 75 80
 Asp Ile Asn Ala Gln Thr Lys Gly Leu Leu Thr Pro Leu His Leu Ala
 85 90 95
 Ala Gly Asn Arg Asp Ser Lys Asp Thr Leu Glu Leu Leu Leu Met Asn
 100 105 110
 Arg Tyr Val Lys Pro Gly Leu Lys Asn Asn Leu Glu Glu Thr Ala Phe
 115 120 125
 Asp Ile Ala Arg Arg Thr Ser Ile Tyr His Tyr Leu Phe Glu Ile Val
 130 135 140
 Glu Gly Cys Thr Asn Ser Ser Pro Gln Ser
 145 150

<210> 5171

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

4640

<400> 5171

```

Thr Xaa Gly Leu Xaa Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro
 1           5           10           15

Gly Arg Pro Thr Arg Pro Xaa Lys Xaa Met Glu Lys Asp Pro Ser Arg
          20           25           30

Leu Leu Leu Trp Ala Ala Glu Lys Asn Arg Val Lys Lys Lys Ile Thr
      35           40           45

Glu Gly Ser Val Thr Val Gly Lys Ala Leu Gly Ser Ser Gln Lys Thr
      50           55           60

Cys Leu Tyr Cys Tyr Gly His His Thr Tyr Leu Leu Ile Val Arg Thr
 65           70           75           80

```

Lys

<210> 5172

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5172

```

Met Cys Thr Arg Ser Leu Thr Ala Leu Ser Glu Pro Arg Thr Pro Gly
 1           5           10           15

Pro Pro Gly Leu Thr Thr Thr Pro Ala Pro Pro Asp Lys Leu Gly Gly
      20           25           30

Lys Gln Arg Ala Ala Phe Lys Ser Gly Lys Arg Val Gly Lys Pro Ser
      35           40           45

Pro Lys Ala Ala
      50

```

<210> 5173

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

4641

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5173

Ala	Cys	Ala	Pro	Gly	Ser	Arg	Arg	Leu	Leu	Ser	Ala	Glu	Gln	Pro	Phe
1				5				10						15	

Gly	His	Pro	Leu	Pro	Leu	Lys	Ile	Cys	Arg	Leu	Arg	Leu	Leu	Ser	Ala
			20					25					30		

Gly	Ala	Arg	Pro	Ser	Arg	Pro	Gly	Ala	Gly	Arg	Ala	Leu	Ala	Cys	His
			35				40					45			

Ala	Ala	Arg	Cys	Xaa	Gln	Pro	Gly	Arg	Trp	Gly	Arg	Ala	Val	His	Arg
			50			55				60					

Ala	Arg	Arg	Ala	Arg	Leu	Gly	Ala	Gly	Thr	Glu	Pro	Pro	Trp	Glu	Val
65					70					75				80	

Pro	Arg	Gln	Leu	Arg	Cys	Ser	Pro	Trp	Leu	Gln	Pro	Ser	Pro	Ala	Ala
			85						90					95	

Xaa	Leu	Ala	Glu	Gln	Xaa	Arg	His	Trp	Ala	Pro	Pro
			100					105			

<210> 5174

<211> 85

<212> PRT

<213> Homo sapiens

<400> 5174

Pro	Arg	Phe	Ala	Arg	Ile	Leu	Leu	Met	Asp	Leu	Ser	Val	Thr	Pro	Val
1				5					10					15	

Arg	Gly	His	Leu	Ser	His	Pro	Val	Pro	Glu	Cys	Ser	Pro	His	Pro	His
			20					25					30		

Leu	Trp	Ser	Arg	Glu	Val	Phe	Ala	Pro	Arg	Ile	Cys	Pro	Glu	Leu	Gly
			35				40					45			

His	Gln	Pro	Leu	Gln	Val	Trp	Val	Leu	Leu	Gln	Asp	Cys	Val	Glu	Leu
			50				55				60				

4642

Phe Leu Leu Lys Asn Phe Pro Gly Asp Asp His Ser Ala Trp Ser Leu
65 70 75 80

Gly Trp Ser Leu Val
85

<210> 5175

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5175

Ser Gln Val Met Gly Thr Glu Arg Phe Ile Val Leu Phe Leu Phe Leu
1 5 10 15

Leu Tyr Gly Ser Ser Gln Ser Phe Asn Ser Met Ala Gln Val Thr Gln
20 25 30

Ser Arg Val Leu Arg Ala Cys Gly Leu Trp Gln His His Pro Gln Thr
35 40 45

Asp Thr Ala Glu Glu Pro Gly Ala Val Ser Cys Arg Cys Ala Trp Leu
50 55 60

Gly Thr Glu Trp Lys Ala Leu Gly Arg Ile Phe Ile Glu Val
65 70 75

<210> 5176

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

4643

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5176

Leu	Ser	Thr	Lys	Ile	Tyr	Arg	Ser	Xaa	Ser	Ala	Met	Tyr	Ser	Arg	Thr
1				5				10						15	

Cys	Gln	Arg	Asn	Ser	Lys	Val	Phe	Ala	Thr	Val	Ser	Ser	Pro	Ala	Ala
			20					25					30		

Ile	Xaa	Asp	Asn	Ser	Pro	Ala	Xaa	Xaa	Asn	Val	Val	Glu	Thr	Asn	Pro
		35					40					45			

Phe	Lys	His	Leu	Thr	His	Leu	Ser	Leu	Lys	Leu	Leu	Pro	Gly	Asn	Asp
	50					55					60				

Val	Glu	Ile	Lys	Lys	Phe	Leu	Ala	Gly	Cys	Leu	Lys	Cys	Ser	Lys	Glu
65					70					75					80

Glu	Lys	Leu	Ser	Leu	Met	Gln	Ser	Leu	Asp	Asp	Ala	Thr	Lys	Gln	Leu
				85					90					95	

Asp	Phe	Thr	Arg	Lys	Thr	Leu	Ala	Glu	Lys	Lys	Gln	Glu	Leu	Asp	Lys
			100					105					110		

Leu	Arg	Asn	Glu	Trp	Ala	Ser	His	Thr	Ala	Ala	Leu	Thr	Asn	Lys	His
		115					120					125			

Ser	Gln	Glu	Leu
130			

<210> 5177

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5177

Pro	Ala	Gln	Leu	Leu	Tyr	Glu	Leu	Ala	Lys	Leu	Ala	Gln	Val	Asn	Val
1				5					10					15	

Glu	Phe	Ser	Ala	Arg	Gln	Leu	Leu	Ile	Arg	Thr	Gly	Arg	Asp	Gly	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4644

				20					25					30					
Tyr	Thr	Thr	Thr	Gly	Asp	Asn	Ser	Arg	Leu	Cys	Arg	Lys	Phe	Gln	Asp				
			35				40					45							
Leu	Gly	Ser	Arg	Thr	Met	His	Asp	Thr	Gln	Ser	Xaa	Ile	Ala	Gly	Gly				
	50					55					60								
Arg	Ala	Thr	Val	Lys	Arg	Pro	Lys	Ser	Ile	Lys	Met	Cys							
65					70					75									

<210> 5178

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5178

Phe	Gly	Thr	Ser	Arg	Arg	Arg	Xaa	Ala	Lys	Xaa	Thr	Leu	Tyr	Cys	Arg
1				5					10					15	
Val	Phe	Leu	Leu	Asp	Gly	Thr	Glu	Val	Ser	Val	Asp	Leu	Pro	Lys	His
			20					25					30		
Ala	Lys	Gly	Gln	Asp	Leu	Phe	Asp	Gln	Ile	Val	Tyr	His	Leu	Asp	Leu
		35					40					45			
Val	Glu	Thr	Asp	Tyr	Phe	Gly	Leu	Gln	Phe	Leu	Asp	Ser	Ala	Gln	Val
	50					55					60				
Ala	His	Trp	Leu	Asp	His	Ala	Lys	Pro	Ile	Lys	Lys	Gln	Met	Lys	Ile
65					70					75					80
Gly	Pro	Ala	Tyr	Ala	Leu	His	Phe	Arg	Val	Lys	Tyr	Tyr	Ser	Ser	Glu
				85					90					95	
Pro	Asn	Asn	Leu	Arg	Glu	Glu	Phe	Thr	Arg	Tyr	Leu	Phe	Val	Leu	Gln
			100					105					110		
Leu	Arg	His	Asp	Ile	Leu	Ser	Gly	Lys	Leu	Lys	Cys	Pro	Tyr	Glu	Thr

4645

115	120	125
Ala Val Glu Leu Ala Ala Leu Cys Leu Gln Ala Asp Phe Val		
130	135	140

<210> 5179
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5179
Arg Arg His Leu Glu Ile Lys Xaa Leu Ile Met Leu Gln Tyr Cys Ile
1 5 10 15
Tyr Phe Ser Leu Tyr Thr Val Phe Phe Phe Val Ser Pro Glu Thr Ser
20 25 30
Phe Pro Phe Arg Phe Phe Ser Cys Ser Ile Lys Leu Ile Tyr Ile Ser
35 40 45
Thr Tyr Ser Asn Gly Val Leu Val Phe Val Ser
50 55

<210> 5180
 <211> 105
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (102)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (104)
 <223> Xaa equals any of the naturally occurring L-amino acids

4646

<400> 5180

```

Leu Pro Leu Arg Asn Lys Ile Leu Met Leu Ser Phe Asp Leu Arg Val
 1              5              10              15

Gly Gly Leu Gly Pro Lys Ala Asp Arg Leu Glu Glu Leu Val Glu Glu
      20              25              30

Leu Glu Ala Ala Pro Cys Cys Pro Leu Leu Glu Val Gly Ser Val Leu
      35              40              45

Asp Leu Leu Val Gln Leu Ala Gly Ser Gly Pro Pro Gln Val Leu Pro
      50              55              60

Arg Lys Arg Asp Tyr Phe Leu Asn Asn Lys His Val Gly Arg Asn Val
      65              70              75              80

Pro Tyr Ser Gly Tyr Asp Cys Asp Asp Leu Xaa Val Phe Glu Met Asp
      85              90              95

Val Gln Ser Leu Ile Xaa Arg Xaa Glu
      100              105

```

<210> 5181

<211> 217

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5181

4647

Val Lys Ile Asn Arg Lys Thr Ala Phe Gly Thr Thr Thr Leu Val Leu
 1 5 10 15
 Thr Asp Phe Ser Asn Lys Ser Ser Thr Leu Glu Arg Lys Thr Lys Gln
 20 25 30
 Asn Gln Ile Leu Asp Glu Glu Phe Gln Asn Ser Pro Pro Ala Ser Val
 35 40 45
 Cys Leu Asn Asp Ile Gln Xaa Pro Ser Lys Lys Thr Thr Asn Asp Ile
 50 55 60
 Thr Gln Leu Xaa Ser Ile Val Asn Ile Ser Pro Thr Ile Ser Ser Glu
 65 70 75 80
 Ser Lys Leu Phe Ser Pro Ala His Lys Lys Pro Lys Thr Ala His Tyr
 85 90 95
 Ser Ser Pro Glu Leu Lys Ser Cys Asn Pro Gly Tyr Ser Asn Ser Glu
 100 105 110
 Leu Gln Ile Asn Met Thr Asp Gly Pro Arg Thr Leu Asn Pro Asp Ser
 115 120 125
 Pro Arg Cys Ser Lys His Asn Arg Leu Cys Ile Leu Arg Val Val Arg
 130 135 140
 Lys Asp Gly Glu Asn Lys Gly Arg Ala Val Leu Cys Leu Ser Ser Tyr
 145 150 155 160
 Leu Gly Gly Arg His Asn Val Gly Phe Phe Trp Asn Gly Ala Asp Phe
 165 170 175
 Val Pro Phe Pro Phe Trp Gln Pro Gly Ala Arg Arg Phe Pro Pro Trp
 180 185 190
 Lys Thr Val Xaa Gly Arg Phe Gly Thr Leu Thr Leu Gly Lys Gly Phe
 195 200 205
 Phe Phe Cys Cys Gly Xaa Leu Trp Gly
 210 215

<210> 5182

<211> 150

<212> PRT

<213> Homo sapiens

<400> 5182

Asn Ile Pro Gly Ser Gly His His Ala Phe Cys Lys Pro Pro Trp Gly

4648

1 5 10 15
 Ala Ala Glu Leu Asp Met Gly Arg Arg Asp Ala Gln Leu Leu Ala Ala
 20 25 30
 Leu Leu Val Leu Gly Leu Cys Ala Leu Ala Gly Ser Glu Lys Pro Ser
 35 40 45
 Pro Cys Gln Cys Ser Arg Leu Ser Pro His Asn Arg Thr Asn Cys Gly
 50 55 60
 Phe Pro Gly Ile Thr Ser Asp Gln Cys Phe Asp Asn Gly Cys Cys Phe
 65 70 75 80
 Asp Ser Ser Val Thr Gly Val Pro Trp Cys Phe His Pro Leu Pro Lys
 85 90 95
 Gln Glu Ser Asp Gln Cys Val Met Glu Val Ser Asp Arg Arg Asn Cys
 100 105 110
 Gly Tyr Pro Gly Ile Ser Pro Glu Glu Cys Ala Ser Arg Lys Cys Cys
 115 120 125
 Phe Ser Asn Phe Ile Phe Glu Val Pro Trp Cys Phe Phe Pro Lys Ser
 130 135 140
 Val Glu Asp Cys His Tyr
 145 150

<210> 5183

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5183

Asn Ser Met Thr Lys Gly Leu Ile Gln Gly Glu Lys Gly Tyr Met Lys
 1 5 10 15
 Thr His Ser Ser Leu Phe Tyr Ser Leu Pro Trp Leu Glu Ile Asn Arg
 20 25 30
 His Ile Val Leu Phe Ile Met Gly Arg Lys Val Gly Lys Asp His Leu
 35 40 45
 Ser Ala Tyr Gly Val Leu Ala Leu Ala His Gly Glu
 50 55 60

4649

<210> 5184

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5184

Leu Ala Ile Asp Ser Thr Gly Leu Lys His Thr Ile Lys Cys Ile His
1 5 10 15

Asp Ile Val His Thr Gln Lys Pro Pro Leu Ile Ile Glu Ile Thr Cys
20 25 30

Ile Leu Phe Gly Asn His Leu Ser Leu Val Leu Lys Tyr Tyr Ile Phe
35 40 45

Cys Ala Ser Met Tyr Phe Ser Ile Tyr Lys Pro Met
50 55 60

<210> 5185

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5185

Leu Gln Phe Ile Lys Leu Ile Thr Arg Gln Asn Tyr Ile Phe Lys Met
1 5 10 15

Ser Lys Gly Leu Asn His Glu Lys Asn Ser Ser Thr Leu Leu Pro Asn
20 25 30

Tyr Cys Phe Gln Asp Ser Gln Ser Met Leu Tyr Ile His Leu Tyr Phe
35 40 45

Ser Leu Tyr Ile
50

<210> 5186

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5186

4650

[illegible]

<210> 5187

<211> 123

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

 $\langle 222 \rangle \quad (121)$

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5187

His Glu Leu Thr Arg Asn Gly Gly Gly Gly Gly Ala Ala Leu Gly Gly
1 5 10 15

4651

Glu Glu Gly Ala Ala Thr Arg Pro Arg Ala Ala Pro Gly Pro Gly Leu
 20 25 30
 Arg Met Glu Pro Phe Arg Arg Arg Leu Tyr Ala Gly Pro Gln Arg Arg
 35 40 45
 Pro Thr Arg Ala Asp Pro Arg His Pro Arg Phe Lys Glu Pro Ser Pro
 50 55 60
 Gly Leu Gly Pro Trp Pro Leu Thr Arg Gln Gly Thr Ala Leu Gly Gly
 65 70 75 80
 Leu Val Cys Arg Gly Xaa Pro Ala Ala Xaa Xaa His Gly Tyr Leu Ala
 85 90 95
 Lys Lys Leu His Ser Pro Ser Asp Gln Phe Pro Pro Arg Ala Lys Asn
 100 105 110
 Pro Glu Leu Glu Xaa Asn Ser Leu Xaa Phe Leu
 115 120

<210> 5188

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5188

Lys Cys Tyr Ile Leu Leu Gly Tyr Arg Gly Ala Gly Glu Thr Ala Glu
 1 5 10 15
 Glu Arg Lys Asn Met Trp Lys Thr Pro Arg Ser Ser Lys Phe Tyr Pro
 20 25 30
 Glu Phe Tyr Leu Pro Cys Met Phe Cys Leu Arg His Phe Ser Cys Asp
 35 40 45
 Ile Arg Lys Ala Ile Ser Lys Gly Xaa Phe Phe Val Ala Lys Ile Tyr
 50 55 60
 Phe Thr Leu
 65

4652

<210> 5189

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5189

Pro	Leu	Pro	Asn	Ser	Pro	Ala	Tyr	Phe	Tyr	Ala	Thr	Phe	Pro	Phe	Thr
1				5					10					15	

Leu	Tyr	Ser	Leu	Ala	Ile	Phe	Asp	Ser	Ser	His	Phe	Leu	Thr	Pro	Val
			20					25					30		

Phe	Ser	Gln	Tyr	Asn	Val	His	Thr	Phe	Ile	Thr	Leu	Ile	Pro	Leu	Tyr
		35					40					45			

Cys	Ile	Leu	Trp	Phe	Ala	Phe	Pro	His
	50					55		

<210> 5190

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5190

Leu	Leu	Val	Pro	Asn	Ser	Cys	Ser	Pro	Gly	Asp	Pro	Leu	Val	Leu	Glu
1				5					10					15	

Arg	Pro	Pro	Pro	Arg	Trp	Ser	Ser	Ser	Phe	Val	Pro	Leu	Val	Arg	Xaa
				20				25					30		

Gly	Val	Ala
		35

<210> 5191

<211> 19

<212> PRT

<213> Homo sapiens

<400> 5191

Leu	Ile	Lys	Leu	Thr	Ser	Lys	Gln	Met	Ile	Thr	Ile	His	Asn	Thr	Lys
1				5					10					15	

4653

Gly Arg Thr

<210> 5192

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5192

Ile	Phe	Leu	Glu	Gly	Phe	His	Glu	Ile	Ser	Pro	Ser	His	Ile	Ser	Ser
1				5				10					15		

Val	Gln	Tyr	Lys	Met	Gln	Lys	Cys	Leu	Leu	Xaa	Lys	Thr	Gly	Asp	Leu
			20					25					30		

Ile	Thr	Thr	Thr	Leu	Gly	Ile	Ser	Gln	Leu	Pro	Leu	Gly	Thr	Gln	Pro
			35				40					45			

Pro	Xaa	Val	Glu	Thr	Cys	Leu	Asp	Trp	His	Ser	Gly	Ser	Thr
	50					55					60		

<210> 5193

<211> 326

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4654

<221> SITE

<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (273)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (281)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5193

Leu	Pro	Gln	Arg	Cys	His	Gly	Val	Leu	Arg	Arg	Arg	Lys	Asp	Trp	Asn
1				5					10					15	

Val	Arg	Leu	Gln	Ala	Phe	Phe	Thr	Ser	Asp	Thr	Gly	Leu	Glu	Tyr	Glu
			20					25					30		

Ala	Pro	Lys	Leu	Tyr	Pro	Ala	Ile	Pro	Ala	Ala	Arg	Arg	Arg	Pro	Ile
		35					40					45			

Arg	Val	Leu	Ser	Leu	Phe	Asp	Gly	Ile	Ala	Thr	Gly	Tyr	Leu	Val	Leu
	50					55					60				

Lys	Glu	Leu	Gly	Ile	Lys	Val	Gly	Lys	Tyr	Val	Ala	Ser	Glu	Val	Cys
65					70					75					80

Glu	Glu	Ser	Ile	Ala	Val	Gly	Thr	Val	Lys	His	Glu	Gly	Asn	Ile	Lys
			85						90					95	

Tyr	Val	Asn	Asp	Val	Arg	Asn	Ile	Thr	Lys	Lys	Asn	Ile	Glu	Glu	Trp
		100					105						110		

Gly	Pro	Phe	Asp	Leu	Val	Ile	Gly	Gly	Ser	Pro	Cys	Asn	Asp	Leu	Ser
		115					120					125			

Asn	Val	Asn	Pro	Ala	Arg	Lys	Gly	Leu	Tyr	Glu	Gly	Thr	Gly	Arg	Leu
	130					135					140				

Phe	Phe	Glu	Phe	Tyr	His	Leu	Leu	Asn	Tyr	Ser	Arg	Pro	Lys	Glu	Gly
145					150					155					160

Asp	Asp	Arg	Pro	Phe	Phe	Trp	Met	Xaa	Glu	Asn	Val	Xaa	Xaa	Met	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4655

					165						170						175
Val	Gly	Asp	Lys	Arg	Asp	Ile	Ser	Arg	Phe	Leu	Glu	Cys	Asn	Pro	Val		
			180					185					190				
Met	Ile	Asp	Ala	Ile	Lys	Val	Ser	Ala	Ala	His	Arg	Ala	Arg	Tyr	Phe		
		195					200					205					
Trp	Gly	Asn	Leu	Pro	Gly	Met	Asn	Arg	Pro	Val	Ile	Ala	Ser	Lys	Asn		
	210					215					220						
Asp	Lys	Leu	Xaa	Leu	Gln	Asp	Cys	Leu	Glu	Tyr	Asn	Arg	Ile	Ala	Lys		
225					230					235					240		
Leu	Lys	Lys	Val	Gln	Thr	Ile	Thr	Thr	Lys	Ser	Asn	Ser	Ile	Lys	Gln		
				245					250					255			
Gly	Lys	Asn	Gln	Leu	Phe	Pro	Val	Val	Met	Asn	Gly	Lys	Glu	Asp	Val		
			260					265					270				
Xaa	Trp	Cys	Thr	Glu	Leu	Glu	Arg	Xaa	Phe	Gly	Phe	Pro	Val	His	Tyr		
		275					280					285					
Thr	Asp	Val	Ser	Asn	Met	Gly	Arg	Gly	Ala	Arg	Gln	Lys	Leu	Leu	Gly		
	290					295					300						
Arg	Ser	Trp	Ser	Val	Pro	Val	Ile	Arg	His	Leu	Phe	Ala	Pro	Leu	Lys		
305					310					315					320		
Asp	Tyr	Phe	Ala	Cys	Glu												
				325													

<210> 5194

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5194

Gly	His	Leu	Pro	Ser	Leu	Ile	Leu	Ser	Leu	Gln	Leu	Leu	Gly	Gln	Leu		
1				5				10					15				
Ser	Leu	Pro	Gln	Arg	Leu	Phe	Phe	Cys	Leu	Ser	Pro	Phe	Gly	Ile	Ser		
			20					25					30				
His	Leu	Glu	Gly	Ile	Cys	Lys	Gly	His	Ser	Val	Leu	Glu	Gln	Gly	Asn		
		35					40						45				
Val	Ala	Ser	Ser	Ala	Gln	Thr	Ser	Leu	Ser	His	Leu	Gln	Leu	Arg	Leu		
		50				55						60					

4656

Gly Met Arg Gly Thr Asp Leu Ala Leu Thr Pro Gly Arg Phe
 65 70 75

<210> 5195

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5195

Xaa Xaa Pro Ser Leu Xaa Glu Gln Ser Trp Xaa Ser Thr Ala Val Ala
 1 5 10 15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
 20 25 30

Ala Glu Leu Asp Ile Phe Phe Lys Asn Lys Ile Arg Cys Gln Pro Ser
 35 40 45

Lys Met Phe Leu
 50

<210> 5196

<211> 37

<212> PRT

<213> Homo sapiens

4657

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5196

Val	Ile	Phe	Leu	Ala	Ser	Gly	Asn	Asp	Gly	Gly	Ala	Leu	Thr	Arg	Val
1				5					10					15	

Tyr	Cys	Gly	Met	Leu	Leu	Leu	Lys	Xaa	Arg	Arg	Glu	Leu	Ala	Arg	Arg
			20					25						30	

Arg	Gly	Ser	Arg	Leu
				35

<210> 5197

<211> 66

<212> PRT

<213> Homo sapiens

<400> 5197

Asp	Ala	Asp	His	Leu	Leu	Gln	Asn	Ser	Tyr	Leu	Glu	Gln	Phe	Lys	Leu
1				5					10					15	

Leu	Val	Pro	Val	Asn	Lys	Asn	Thr	Asp	Gln	Asn	Ala	Leu	His	Val	Ala
			20					25						30	

Tyr	Thr	Val	Gly	Ser	Leu	His	Ala	Val	Leu	Asp	Met	Phe	Ile	Ser	Thr
		35					40					45			

Leu	Asn	Ala	Met	Lys	Cys	Phe	Ile	Asn	Lys	Lys	Pro	Leu	Tyr	Ile	Lys
	50					55					60				

Leu	Leu
	65

<210> 5198

<211> 38

<212> PRT

<213> Homo sapiens

<400> 5198

Cys	Glu	Ala	Cys	Thr	Gly	Lys	Ala	Pro	Arg	Ser	Gly	Gly	Ile	Pro	Glu
1				5					10					15	

Glu	Met	Pro	Glu	Leu	Lys	Asp	Cys	Gly	Trp	Gly	Lys	Arg	Ser	Pro	Ser
			20					25						30	

4658

Lys Glu Ala Val Cys Gly
35

<210> 5199

<211> 102

<212> PRT

<213> Homo sapiens

<400> 5199

Asp Val Glu Ile Val Pro Val Leu Gly Asn Tyr Phe Pro Leu Pro Gly
1 5 10 15

Tyr Gly Lys Glu Asp Val Ile Val Asn Asn Ile His His Pro Val Phe
20 25 30

Asn Val Leu Gln Gln Cys Ser Asn Leu Phe Phe Ser Phe Val Pro Thr
35 40 45

Ala Phe Val Tyr Ile Glu Asn Leu Lys Ile Ser Pro Ser Leu Leu Glu
50 55 60

Val Lys Met Phe Pro Asn Leu Leu Asn Met Pro Leu Phe Thr Ile Cys
65 70 75 80

Phe Phe Arg Leu Phe Leu Met His Tyr Arg Ile Lys Tyr Asp Phe Val
85 90 95

Tyr Phe Tyr Tyr Ser Met
100

<210> 5200

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5200

Phe Leu His His Lys Leu Tyr Leu Asn Val Gly Ala Val Ser Gly Cys
1 5 10 15

Phe Leu Pro His Gly Glu Thr Trp Ser Ala Val Arg Glu Lys Asn Glu
20 25 30

Ala Met Met Lys Ala Lys Ser Arg Lys Ser Pro Asp Cys Val Pro Val
35 40 45

Pro Gly Ser Ser Gly Leu His Val Gln Val His Leu Cys Pro Phe His

4659

50 55 60
 Val Leu Ile Val Glu Phe Phe Cys Glu Ile Leu Gln Ile Ser
 65 70 75

 <210> 5201
 <211> 26
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5201
 Ala His Xaa Ser Ala Arg His Ser Cys Pro Gly Asn Val Ala Ala Arg
 1 5 10 15

 Asn Trp Trp Val Ser Asn Asn Ile Leu Trp
 20 25

 <210> 5202
 <211> 303
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (257)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5202
 Val Asn Glu Ile Met Ile Leu Glu Gly Gly Gly Val Met Asn Leu Asn
 1 5 10 15

 Pro Gly Asn Asn Leu Leu His Gln Pro Pro Ala Trp Thr Asp Ser Tyr
 20 25 30

 Ser Thr Cys Asn Val Ser Ser Gly Phe Phe Gly Gly Gln Trp His Glu
 35 40 45

 Ile His Pro Gln Tyr Trp Thr Lys Tyr Gln Val Trp Glu Trp Leu Gln
 50 55 60

 His Leu Leu Asp Thr Asn Gln Leu Asp Ala Asn Cys Ile Pro Phe Gln
 65 70 75 80

4660

Glu Phe Asp Ile Asn Gly Glu His Leu Cys Ser Met Ser Leu Gln Glu
 85 90 95
 Phe Thr Arg Ala Ala Gly Thr Ala Gly Gln Leu Leu Tyr Ser Asn Leu
 100 105 110
 Gln His Leu Lys Trp Asn Gly Gln Cys Ser Ser Asp Leu Phe Gln Ser
 115 120 125
 Thr His Asn Val Ile Val Lys Thr Glu Gln Thr Glu Pro Ser Ile Met
 130 135 140
 Asn Thr Trp Lys Asp Glu Asn Tyr Leu Tyr Asp Thr Asn Tyr Gly Ser
 145 150 155 160
 Thr Val Asp Leu Leu Asp Ser Lys Thr Phe Cys Arg Ala Gln Ile Ser
 165 170 175
 Met Thr Thr Thr Ser His Leu Pro Val Glu Ser Pro Asp Met Lys Lys
 180 185 190
 Glu Gln Asp Pro Pro Ala Lys Cys His Thr Lys Lys His Asn Pro Arg
 195 200 205
 Gly Thr His Leu Trp Glu Phe Ile Arg Asp Ile Leu Leu Asn Pro Asp
 210 215 220
 Lys Asn Pro Gly Leu Ile Lys Trp Glu Asp Arg Ser Glu Gly Val Phe
 225 230 235 240
 Arg Phe Leu Lys Ser Glu Ala Val Ala Gln Leu Trp Gly Lys Lys Lys
 245 250 255
 Xaa Asn Ser Ser Met Thr Tyr Glu Lys Leu Ser Arg Ala Met Arg Tyr
 260 265 270
 Tyr Tyr Lys Arg Glu Ile Leu Glu Arg Val Asp Gly Arg Arg Leu Val
 275 280 285
 Tyr Lys Phe Gly Lys Asn Ala Arg Gly Trp Arg Glu Asn Glu Asn
 290 295 300

<210> 5203

<211> 113

<212> PRT

<213> Homo sapiens

<220>

4661

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5203

Arg	Thr	Ser	Ile	Leu	Leu	Lys	Arg	Ala	Cys	Arg	Xaa	Xaa	Ser	Leu	Pro
1				5					10					15	

Pro	Thr	Leu	Ser	His	Leu	Arg	Leu	His	Leu	Gln	Leu	Ala	Pro	Arg	Ser
			20					25					30		

Cys	Gly	Asp	Gly	Ser	Pro	Trp	Gln	Pro	Pro	Ala	Asp	Leu	Ser	Gly	Leu
		35					40					45			

Xaa	Ile	Glu	Glu	Val	Ser	Lys	Ser	Leu	Arg	Phe	Ile	Gly	Leu	Ser	Glu
	50					55					60				

Asp	Val	Ile	Ser	Phe	Phe	Val	Thr	Glu	Lys	Ile	Asp	Gly	Asn	Leu	Leu
65					70					75				80	

Val	Gln	Leu	Thr	Glu	Glu	Ile	Leu	Ser	Glu	Asp	Phe	Lys	Leu	Ser	Lys
				85					90					95	

Leu	Gln	Val	Lys	Lys	Ile	Met	Gln	Phe	Ile	Asn	Gly	Trp	Arg	Pro	Lys
			100					105					110		

Ile

<210> 5204

<211> 46

<212> PRT

<213> Homo sapiens

<400> 5204

Lys	Ser	Pro	Thr	Met	Phe	Leu	Asn	Ser	Lys	Cys	Lys	Leu	Ser	Ala	Arg
1				5					10					15	

Val	Asp	Ile	His	Thr	Ala	Cys	Phe	His	Met	Trp	His	Phe	Tyr	Val	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4662

20 25 30

Cys Trp Val Ile Val Leu Asp Trp Thr Val Lys Tyr Tyr Val

35 40 45

<210> 5205

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5205

Ala Pro Thr Met Ala Glu Thr Lys Leu Gln Leu Phe Val Lys Ala Ser

1 5 10 15

Glu Asp Gly Glu Ser Val Gly His Cys Pro Ser Tyr Leu Asp Ser Ala

20 25 30

Met Gln Glu Lys Glu Phe Lys Tyr Thr Cys Pro His Ser Ala Glu Ile

35 40 45

Leu Ala Ala Tyr Arg Pro Xaa Val His Pro Arg

50 55

<210> 5206

<211> 44

<212> PRT

<213> Homo sapiens

<400> 5206

Pro Gln Leu Ala Glu Lys Ala Ile Leu Lys Thr Phe Pro Thr Ala Tyr

1 5 10 15

Leu Cys Glu Val Asn Leu Leu Gln Gln Lys Ser Leu Asp Val Glu Ala

20 25 30

Ala Val Arg Ile Gln Leu Phe Ile Ile Thr Arg Tyr

35 40

<210> 5207

<211> 49

4663

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5207

Asp	Ser	Lys	Leu	Glu	Gly	Phe	Glu	Glu	Lys	Glu	Val	Glu	Val	Phe	Cys
1				5					10					15	

Lys	Arg	Thr	Leu	Ile	Leu	Leu	Leu	Glu	Ala	Val	Xaa	Arg	Ala	Leu	Arg
			20					25					30		

Val	Glu	Asn	Xaa	Ser	Ala	Leu	Lys	Gly	Arg	His	Glu	Lys	Gln	Gln	His
		35					40					45			

Gln

<210> 5208

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5208

Lys	Gln	Lys	Arg	Val	Pro	Val	Lys	Trp	Ile	Lys	Gln	Thr	Gly	Lys	Asp
1				5					10					15	

Glu	Ala	Cys	Xaa	Ala	Gly	Gly	Ala	Glu	Ser	Gln	Pro	Ala	Ser	Ser	Val
			20					25					30		

Val	Ile	Leu	Leu	Asn	Leu	Tyr	Gln	Ser	Phe	Gln	Asn	Arg	Gly	Gly	Met
		35					40					45			

Asp	Leu	Pro	Leu	Cys	Asp	Ala	Arg	Ser	Gln	Arg	Trp	Asp	Ser	Val	Ile
	50					55					60				

4664

Gly Leu Cys
65

<210> 5209

<211> 103

<212> PRT

<213> Homo sapiens

<400> 5209

Arg Glu Lys His Arg Trp Val Ser Pro Arg His Ser Ser Leu Gln Arg
1 5 10 15

Cys Leu His Arg Ala Asn Pro Ala Phe Leu Lys Gly Ala Phe Pro His
20 25 30

Leu Met Cys Leu Ser Ala Ser Phe Phe Arg Gln Glu Phe Lys Ser Ile
35 40 45

Phe Lys Ile Asp Arg Phe Trp Cys Ser Phe Ala Ser Phe Arg Gly Arg
50 55 60

Leu Ser Pro Ala Ser Gly Ile His Pro His Val Gly Thr Arg Ser Ala
65 70 75 80

Ala Gly Ser His Val Tyr Glu Met Leu Val Val Phe Phe Phe Phe Ser
85 90 95

Phe Ile Leu Glu Val Phe Leu
100

<210> 5210

<211> 92

<212> PRT

<213> Homo sapiens

<400> 5210

Gly Arg Val Tyr Cys Leu Phe Lys Trp His Asn Phe Lys Gly Leu Arg
1 5 10 15

Val Gln Ser Leu Asn Leu Pro Arg Glu Gly Ala Pro Lys Leu Ser Ser
20 25 30

Pro His Thr Ser Gly Phe Leu Cys Gly Gly Gly Ala Gly Ile Ser Lys
35 40 45

Leu Trp Cys Glu Arg Val Gly Glu Met Leu Glu Val Gly Val Leu Cys
50 55 60

4665

Ser Arg Pro Pro Ile Leu Ser Gln Cys Pro Leu Pro Pro Ser Ser Pro
 65 70 75 80

Thr Pro Cys Pro Gln Phe Cys Gly Ala Ser Arg Leu
 85 90

<210> 5211

<211> 257

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5211

Gly Ala Val Gly Leu Gly Gly Gln Glu Leu Gln Tyr Gly His Gly Leu
 1 5 10 15

Ser Arg Leu Ser Thr Ser Ala Phe Arg Ala Tyr Gly Gln Gly Thr Leu
 20 25 30

Tyr Asp Ser Pro Leu Leu Gln Val Ser Ile His Leu Gly Tyr Gly Ile
 35 40 45

Tyr Arg Pro Val Ser Leu Gly Ser His Ala Leu Phe Pro Phe Leu Ser
 50 55 60

Trp Leu Asp Gln Pro Leu Trp Asp Gln His Pro Xaa His Thr Pro Pro
 65 70 75 80

Asp Cys Ser Ser Ile Thr Arg Ile Ala Leu Tyr Phe Val Gln Lys Gly
 85 90 95

Leu Ala Val Pro Cys Cys Phe His Leu Cys Lys Pro Ile Val Pro Leu
 100 105 110

4666

Ala Ala Val Cys Val Arg Val His Val Cys Val Phe His Leu Xaa Ile
 115 120 125

His Cys Thr Arg Tyr Leu Xaa Ser Ala His Tyr Val Pro Gly Thr Val
 130 135 140

Ala Glu Phe Leu Trp Val Cys Leu Ser Met Pro Leu Leu Leu Leu Trp
 145 150 155 160

Gly Pro Leu Ser Val Leu Leu Phe Val Pro Lys Leu Leu Pro Leu Cys
 165 170 175

Gln Ser Gly Cys Leu Arg Phe Cys Val Ser Leu Cys Ala Phe Leu Ser
 180 185 190

Leu Ser Val Leu Val Ser Leu Gln Gly Pro Leu Phe Leu Ser Phe Leu
 195 200 205

Val Ser Val Leu Cys Pro Leu Cys Pro Leu Asp Ser Leu Gly Leu Cys
 210 215 220

Arg Pro Leu Val Cys Pro Gly Ser Ser Ala Phe Leu Thr Ser Ser Cys
 225 230 235 240

Pro Pro Leu His Ser Leu Leu Leu Cys Ser Arg Phe Pro Arg Ser His
 245 250 255

Phe

<210> 5212

<211> 73

<212> PRT

<213> Homo sapiens

<400> 5212

Ile Thr Cys Ser Asp Leu Ile Thr Phe Asp Lys Phe Glu Lys Phe Val
 1 5 10 15

Phe Gln Thr Glu Pro Val Ser Ile Asn Glu Glu Asn Glu Gly Phe Glu
 20 25 30

His Asn Thr Gln Val Arg Asn Gln Gly Ile Ile Ala Leu Ser Tyr Arg
 35 40 45

Asp Trp Glu Val Lys Leu Cys Leu Leu Pro Leu His Ser Ser Asp Ser
 50 55 60

Ala Phe Thr Cys Ser Lys Pro Ser Ala

4667

65

70

<210> 5213

<211> 41

<212> PRT

<213> Homo sapiens

<400> 5213

Arg	Leu	Met	Thr	Ala	Phe	Leu	Arg	Ile	Ala	Asn	Arg	Gly	Gln	Arg	Gly
1				5					10				15		
Gly	Ser	Gln	His	Phe	Gly	Arg	Pro	Arg	Arg	Val	Asp	His	Glu	Val	Arg
			20					25					30		
Ser	Ser	Arg	Thr	Ala	Trp	Pro	Arg	Trp							
		35					40								

<210> 5214

<211> 79

<212> PRT

<213> Homo sapiens

<400> 5214

Met	Leu	Ile	Asp	Asp	Glu	Asn	Leu	Val	Gly	Cys	Arg	Ala	Gln	Phe	Arg
1				5					10				15		
Arg	Ser	Glu	Leu	Gly	Val	Gly	Asp	Arg	Phe	Gly	Gly	Gly	Ile	Ser	Gln
			20					25					30		
Leu	Phe	Pro	Pro	Leu	Asn	Ser	Glu	Glu	Cys	Ser	Tyr	Ala	Arg	Ser	Gln
			35				40					45			
Arg	Arg	Ala	Thr	Arg	Ser	Phe	Cys	Phe	Gly	Asp	Asn	Trp	Ser	Val	Glu
		50				55					60				
Ser	Pro	Arg	Ser	Ser	Phe	Val	Ala	Phe	Cys	Ile	Leu	Leu	Pro	Gly	
65					70					75					

<210> 5215

<211> 290

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4668

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5215

Gln	Ser	Xaa	Tyr	Xaa	Asn	Ser	Gly	Gln	Xaa	Asp	Ala	Ala	Arg	Gly	Thr
1				5				10						15	

Arg	Val	Gly	Arg	Val	Arg	Leu	Trp	Lys	Arg	Ala	Ala	Ala	Ala	His	Asn
		20						25						30	

Met	His	Ser	Leu	Ala	Thr	Ala	Ala	Pro	Val	Pro	Thr	Thr	Leu	Ala	Gln
		35					40					45			

Val	Asp	Arg	Glu	Lys	Ile	Tyr	Gln	Trp	Ile	Asn	Glu	Leu	Ser	Ser	Pro
	50					55					60				

Glu	Thr	Arg	Glu	Asn	Ala	Leu	Leu	Glu	Leu	Ser	Lys	Lys	Arg	Glu	Ser
65					70					75					80

Val	Pro	Asp	Leu	Ala	Pro	Met	Leu	Trp	His	Ser	Phe	Gly	Thr	Ile	Ala
			85						90					95	

Ala	Leu	Leu	Gln	Glu	Ile	Val	Asn	Ile	Tyr	Pro	Ser	Ile	Asn	Pro	Pro
			100					105					110		

Thr	Leu	Thr	Ala	His	Gln	Ser	Asn	Arg	Val	Cys	Asn	Ala	Leu	Ala	Leu
		115					120					125			

Leu	Gln	Cys	Val	Ala	Ser	His	Pro	Glu	Thr	Arg	Ser	Ala	Phe	Leu	Ala
	130					135					140				

Ala	His	Ile	Pro	Leu	Phe	Leu	Tyr	Pro	Phe	Leu	His	Thr	Val	Ser	Lys
145					150					155					160

Thr	Arg	Pro	Phe	Glu	Tyr	Leu	Arg	Leu	Thr	Ser	Leu	Gly	Val	Ile	Gly
			165					170						175	

Ala	Leu	Val	Lys	Thr	Asp	Glu	Gln	Glu	Val	Ile	Asn	Phe	Leu	Leu	Thr
			180					185					190		

Thr	Glu	Ile	Ile	Pro	Leu	Cys	Leu	Arg	Ile	Met	Glu	Ser	Gly	Ser	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4669

195 200 205
 Leu Ser Lys Thr Val Ala Thr Phe Ile Leu Gln Lys Ile Leu Leu Asp
 210 215 220
 Asp Thr Gly Leu Ala Tyr Ile Cys Gln Thr Tyr Glu Arg Phe Ser His
 225 230 235 240
 Val Ala Met Ile Leu Gly Lys Met Val Leu Gln Leu Ser Lys Glu Pro
 245 250 255
 Ser Ala Arg Leu Leu Lys His Val Val Arg Cys Tyr Leu Arg Leu Ser
 260 265 270
 Asp Asn Pro Arg Phe Ser Asp Leu Thr Phe Cys Trp Ser Ser Phe Gln
 275 280 285
 Arg Lys
 290

<210> 5216
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 5216
 Ala Arg Phe Ala Arg Ser Ala His Glu Gly Lys Met Pro Lys Lys Lys
 1 5 10 15
 Thr Gly Ala Arg Lys Lys Ala Glu Asn Arg Arg Glu Arg Glu Lys Gln
 20 25 30
 Leu Arg Ala Ser Arg Ser Thr Ile Asp Leu Ala Lys His Pro Cys Asn
 35 40 45
 Ala Ser Met Val Ser Ala Phe Phe Asp Ile Ser Trp
 50 55 60

<210> 5217
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 5217
 Glu Ser Ile Gln His Asn Asn Val Leu Lys Pro Ile Asn Leu Leu Ser
 1 5 10 15

4670

Gln Gln Met Lys Pro Gly Met Lys Arg Gln Arg Ser Leu Tyr Arg Glu
 20 25 30
 Ile Leu Phe Leu Ser Leu Val Ser Leu Gly Arg Glu Asn Ile Asp Ile
 35 40 45
 Glu Ala Phe Asp Asn Glu Tyr Gly Ile Ala Tyr Asn Ser Leu Ser Ser
 50 55 60
 Glu Ile Leu Glu Arg Leu Gln Lys Ile Asp Ala Pro Pro Ser Ala Ser
 65 70 75 80
 Val Glu Trp Cys Arg Lys Cys Phe Gly Ala Pro Leu Ile
 85 90

<210> 5218

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5218

Asn Thr Lys Thr Asn Lys Gln Xaa Lys Asn Gln Asn Ala Leu Tyr Arg
 1 5 10 15

Ile Ala Cys Glu Val Phe Ser Thr Glu Ser Ile Phe Pro Phe Val Ser
 20 25 30

Asp Phe Lys Leu Thr Tyr Glu Gly Arg Glu Met Ile Thr Phe Pro Val
 35 40 45

Lys Ser Ile Asp Asn Leu Ile Asn Leu Val Thr Pro Pro Ser Val Leu
 50 55 60

Asn Ile Thr Lys Phe Val Val Ile Arg Leu Ser Ala Pro Val Phe Ile
 65 70 75 80

Val Glu Leu Pro Leu Ser Leu Glu Thr Phe Leu Leu Lys Asn Asp Gly
 85 90 95

4671

Ser Ile Val Phe Xaa Tyr Val Pro Met Lys Val Gly
 100 105

<210> 5219

<211> 139

<212> PRT

<213> Homo sapiens

<400> 5219

Arg Thr Ser Pro Arg Phe Gln Phe Gln Gly Leu Thr Phe Leu Arg Arg
 1 5 10 15

Arg Trp Asn Val Lys Gly Gly Arg Lys Glu Ile Lys Arg Pro Gln Val
 20 25 30

Lys Met Trp Lys Val Thr Ser Ser Leu Arg Pro Arg Gly Thr Arg Arg
 35 40 45

Glu Ser Pro Arg Gly Pro Arg Pro Ser Glu Arg Val Ala Lys Lys Lys
 50 55 60

Ser Ala Pro Ala Glu Glu Gln Leu Arg Gly Pro Cys Trp Asp Gln Ser
 65 70 75 80

Ser Lys Ala Ser Ala Gln Asp Ala Gly Asp His Val Gln Pro Pro Glu
 85 90 95

Gly Arg Asp Phe Thr Leu Lys Pro Lys Lys Arg Arg Gly Lys Lys Lys
 100 105 110

Leu Gln Lys Pro Val Glu Ile Ala Glu Asp Ala Thr Leu Glu Glu Thr
 115 120 125

Leu Val Lys Lys Lys Lys Lys Lys Asp Ser Lys
 130 135

<210> 5220

<211> 125

<212> PRT

<213> Homo sapiens

<400> 5220

Ser Arg Gln Asn Glu Lys Gly Gly Gly His Cys Ser Pro Leu Asn Ser
 1 5 10 15

Phe Phe Arg Ser Ser Met Ser Leu Ser Ala Leu Ala Cys Asp Phe
 20 25 30

4672

Thr Pro Ile Gln Pro Trp Glu Trp Glu Glu Tyr Glu Gln Ile Thr Leu
 35 40 45

Gly Leu Thr Ala Pro Ser Asn Leu Leu Glu Ser Asn Tyr Leu Gly Gln
 50 55 60

Ala Ser Glu Cys Phe Val Arg Lys Leu Val Arg Arg Phe Pro Gln Leu
 65 70 75 80

Leu Pro Gly Pro Pro Gly His Cys Arg Lys Asp Leu Gly Asp Pro Gln
 85 90 95

Gln Arg Pro Ile Ala Leu Leu Pro Ser Leu Pro His Gln Glu Arg Asn
 100 105 110

Asn Val His Arg Leu Glu Ala Asp Ser Glu Val Asp Leu
 115 120 125

<210> 5221

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5221

Asn Tyr Leu Pro Ser Leu Ser Tyr Ala Ser Xaa Ile Gly Met Leu Leu
 1 5 10 15

Val Ser Met His Thr Thr Thr Phe His Gly Phe Tyr Cys Ala Gln Thr

4673

	20		25		30										
Leu	His	Ala	Phe	Arg	Met	Ile	Tyr	Leu	Arg	Arg	Tyr	Ile	Ile	Cys	His
	35					40					45				
Pro	Asp	Pro	Lys	Arg	Xaa	Arg	Xaa	Xaa	Asp	His	Ser	Glu	Pro	Leu	Ile
	50					55					60				
Arg	Lys	Leu	Leu	Ala	Ser	Val	Phe	Asp	Thr	Ser	Leu	Thr	Leu	Tyr	Ile
65					70					75				80	
His	Val	Ile	Ile	Ser	Cys	Gln	Ile	Leu	Asp	Ser	Ile	Asn	Cys	Pro	Leu
				85					90					95	
Thr	Ala	Tyr													

<210> 5222

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4674

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5222

Lys	Tyr	Leu	Val	Glu	Ile	Pro	Glu	Phe	Tyr	Glu	Val	Xaa	Asp	Lys	Lys
1				5					10					15	

Xaa	Ala	Gln	Gly	Leu	Leu	Lys	Ser	Thr	Cys	Ile	Ile	Ser	Pro	Phe	Gln
			20					25					30		

Lys	Thr	Xaa	Thr	Xaa	Val	Xaa	Gly	Lys	Ile	Pro	Val	Xaa	Xaa	Ile	Cys
	35						40					45			

Tyr	Xaa	Phe	Leu	Leu	Pro	His	Leu	Ala	Asn	Asn	Phe
	50					55					60

<210> 5223

<211> 212

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (206)

4675

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (211)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5223

Leu	Thr	Xaa	Xaa	Asn	Lys	Ser	Trp	Xaa	Ser	Thr	Ala	Val	Ala	Ala	Ala
1				5				10					15		

Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg	Ala	Ala
			20					25					30		

Ala	Ser	Met	Lys	Arg	Lys	Ser	Glu	Arg	Arg	Ser	Ser	Trp	Ala	Ala	Ala
		35					40					45			

Pro	Pro	Cys	Ser	Arg	Arg	Cys	Ser	Ser	Thr	Ser	Pro	Gly	Val	Lys	Lys
		50				55					60				

Ile	Arg	Ser	Ser	Thr	Gln	Gln	Asp	Pro	Arg	Arg	Arg	Asp	Pro	Gln	Asp
65					70					75				80	

Asp	Val	Tyr	Leu	Asp	Ile	Thr	Asp	Arg	Leu	Cys	Phe	Ala	Ile	Leu	Tyr
				85					90					95	

Ser	Arg	Pro	Lys	Ser	Ala	Ser	Asn	Val	His	Tyr	Phe	Ser	Ile	Asp	Asn
			100					105					110		

Glu	Leu	Glu	Tyr	Glu	Asn	Phe	Tyr	Ala	Asp	Phe	Gly	Pro	Leu	Asn	Leu
		115					120					125			

Ala	Met	Val	Tyr	Arg	Tyr	Cys	Cys	Lys	Ile	Asn	Lys	Lys	Leu	Lys	Ser
		130				135					140				

Ile	Thr	Met	Leu	Arg	Lys	Lys	Ile	Val	His	Phe	Thr	Gly	Ser	Asp	Gln
145					150					155				160	

Arg	Lys	Gln	Ala	Asn	Ala	Ala	Phe	Leu	Val	Gly	Cys	Tyr	Met	Val	Ile
				165					170					175	

4676

Tyr Leu Gly Arg Thr Pro Glu Glu Ala Tyr Arg Ile Leu Ile Phe Gly
 180 185 190
 Glu Thr Ser Tyr Ile Pro Phe Arg Asp Ala Ala Tyr Gly Xaa Cys Xaa
 195 200 205
 Xaa Thr Xaa Pro
 210

<210> 5224
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 5224
 Lys Gln Arg Gly Asn Leu Lys Ala Thr Leu Thr His Leu Gln Ser Ser
 1 5 10 15
 Gln Ile Leu Thr Phe Thr Arg Leu Ala Phe Cys Phe Trp Ala Ser Pro
 20 25 30
 Lys Gln Thr Ala Ser His Pro Asn Arg Gly Arg Met Glu Met Phe Val
 35 40 45

<210> 5225
 <211> 98
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5225
 Trp Tyr Phe Ser Lys Cys Val Leu Val Val Ile Thr Ser Asn Ile Asn
 1 5 10 15
 Leu Cys Cys Glu Ser Phe Val Ser Phe Ser Thr Val Phe Gln Arg Lys

4677

[illegible]

<210> 5226

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5226

Cys Leu Ala His Arg Lys Cys Ser Asp Met Leu Ser Asn Lys Lys Leu
1 5 10 15

Met Trp Trp Val Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu
20 25 30

Ala Glu Val Ser Gly Leu Gln Gly Gln Glu Phe Gln Thr Ser Leu Ala
35 40 45

Asn Met Xaa Lys Pro Arg Leu Tyr
50 55

<210> 5227

<211> 94

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

4678

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5227

Gln	Ser	Lys	Pro	Leu	Asn	Ile	Thr	His	Leu	His	Leu	Gln	Val	Trp	Pro
1				5					10					15	

Gln	Xaa	Phe	Lys	Trp	Leu	Leu	Ser	Leu	Leu	His	Ser	Thr	Tyr	Pro	Leu
			20					25					30		

Leu	Gln	Leu	Phe	His	Lys	Tyr	Arg	Leu	Asn	Ile	Pro	Tyr	Leu	Lys	Cys
			35				40					45			

Leu	Gly	Leu	Xaa	Val	Ser	Asp	Phe	Arg	Tyr	Val	Trp	Ile	Leu	Glu	Tyr
			50			55					60				

Leu	Tyr	Met	Tyr	Asn	Glu	Xaa	Leu	Leu	Glu	Leu	Gly	Pro	Lys	Ser	Lys
					70					75					80

Gln	Asn	Ser	Phe	Met	Phe	His	Ile	Tyr	Leu	Ile	His	Ile	Thr
				85						90			

<210> 5228

<211> 24

<212> PRT

<213> Homo sapiens

<400> 5228

Lys	Glu	Pro	Met	Gln	Val	Trp	Phe	Leu	Ser	Arg	Lys	Asn	Thr	Gly	Thr
1				5					10					15	

Glu	Glu	Thr	Lys	Gln	Asp	Asp	Asp
				20			

<210> 5229

<211> 133

<212> PRT

4679

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5229

Arg	Ala	Arg	Arg	Gly	Val	Ser	Val	Lys	Ala	Xaa	Lys	Xaa	Glu	Thr	Ala
1				5					10					15	

Ala	Thr	Met	Lys	Asp	Xaa	Ala	Leu	Lys	Xaa	Lys	Val	Ser	Thr	Ala	Thr
		20						25					30		

Val	Ser	Arg	Ala	Leu	Met	Asn	Pro	Asp	Lys	Val	Ser	Gln	Ala	Thr	Arg
		35					40					45			

Asn	Arg	Val	Glu	Lys	Ala	Ala	Arg	Glu	Val	Gly	Tyr	Leu	Pro	Gln	Pro
	50					55					60				

Met	Gly	Arg	Asn	Val	Lys	Arg	Asn	Glu	Ser	Arg	Thr	Ile	Leu	Val	Ile
65					70					75					80

Val	Pro	Asp	Ile	Cys	Asp	Pro	Phe	Phe	Ser	Glu	Ile	Ile	Arg	Gly	Ile
				85					90					95	

4680

Glu Val Thr Ala Ala Asn His Gly Tyr Leu Val Xaa Ile Gly Asp Cys
 100 105 110

Ala His Gln Asn Gln Gln Glu Lys Thr Phe Ile Xaa Leu Ile Ile Thr
 115 120 125

Lys Gln Ile Asp Trp
 130

<210> 5230

<211> 261

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (230)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (243)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (246)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (250)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (257)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5230

Ser Trp Lys Thr Gly Glu Asp Lys Ser Met Ser Ser Leu Pro Gly Cys
 1 5 10 15

Ile Gly Leu Asp Ala Ala Thr Ala Thr Val Glu Ser Glu Glu Ile Ala
 20 25 30

Glu Leu Gln Gln Ala Val Val Glu Glu Leu Gly Ile Ser Met Glu Glu
 35 40 45

4681

Leu Arg His Phe Ile Asp Glu Glu Leu Glu Lys Met Asp Cys Val Gln
 50 55 60
 Gln Arg Lys Lys Gln Leu Ala Glu Leu Glu Thr Trp Val Ile Gln Lys
 65 70 75 80
 Glu Ser Glu Val Ala His Val Asp Gln Leu Phe Asp Asp Ala Ser Arg
 85 90 95
 Ala Val Thr Asn Cys Glu Ser Leu Val Lys Asp Phe Tyr Ser Lys Leu
 100 105 110
 Gly Leu Gln Tyr Arg Asp Ser Ser Ser Glu Asp Glu Ser Ser Arg Pro
 115 120 125
 Thr Glu Ile Ile Glu Ile Pro Asp Glu Asp Asp Asp Val Leu Ser Ile
 130 135 140
 Asp Ser Gly Asp Ala Gly Ser Arg Thr Pro Lys Asp Gln Lys Leu Arg
 145 150 155 160
 Glu Ala Met Ala Ala Leu Arg Lys Ser Ala Gln Asp Val Gln Lys Phe
 165 170 175
 Met Asp Ala Val Asn Lys Lys Ser Ser Ser Gln Asp Leu His Lys Gly
 180 185 190
 Thr Leu Ser Gln Met Ser Gly Glu Leu Ser Lys Asp Gly Asp Leu Ile
 195 200 205
 Val Ser Met Arg Ile Leu Gly Lys Lys Arg Thr Lys Thr Trp His Lys
 210 215 220
 Gly Pro Leu Leu Pro Xaa Arg Gln Leu Asp Gln Gly Ser Thr Gln Ala
 225 230 235 240
 Pro Val Xaa Ser Ala Xaa Gln Ala Gln Xaa Arg Lys Glu Asn His Leu
 245 250 255
 Xaa Thr Phe Ile Pro
 260

<210> 5231

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5231

Ile Asn Pro Ala Leu Leu Arg Lys Gly Asn Leu Phe Arg Gln Ser Gly

4682

1 5 10 15
 Lys Gly Val Leu Arg Lys Leu Ser Phe Phe Ile Pro Ser Phe Leu Pro
 20 25 30
 Thr Thr Val Thr Gly Tyr Arg Gly Leu Trp Thr Leu Lys Thr Asn Val
 35 40 45
 Trp Pro Leu Thr Gly Leu Ile Cys Ile Phe Leu
 50 55

<210> 5232
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 5232
 Thr Ser Ser Pro Trp Ala Ala Pro Pro Gly Ser Gly Gly Pro Glu Pro
 1 5 10 15
 Pro Arg Pro Gly Leu Pro Arg Leu Gly Leu Gly Asp Leu Asn Leu Leu
 20 25 30
 Thr Leu Gly Cys Pro Ser Trp
 35

<210> 5233
 <211> 71
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5233
 Lys Leu Cys Arg Leu Ile Asn Glu Asp Val Asn Glu Gln Val Met Gln
 1 5 10 15
 Val Leu Gly Pro Glu Asp Leu Gln Ser Ile Ile Tyr Lys Xaa Glu Glu
 20 25 30
 His Glu Glu Phe Phe Pro Ala Phe Gln Ala Phe Thr Asn Asp Leu Leu
 35 40 45
 Glu Ile Leu Glu Ile Asp Asp Leu Asp Ala Ile Val Pro Ala Val Lys

4683

50 55 60
 Lys Leu Lys Val Leu Ser Tyr
 65 70

 <210> 5234
 <211> 81
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5234
 Ala Leu Val Leu Ser Arg Glu Gln Glu Lys Leu Phe Glu Lys Gly Lys
 1 5 10 15

 Glu Ser Ile Pro Tyr Leu Ile Arg Thr His Arg His Ala Arg His Gly
 20 25 30

 His Gly Val His Val His Leu Ser His Val Thr Thr Ala Ala Ile His
 35 40 45

 Val His His Thr Ile His Cys Arg Ile Xaa Leu Val Gly Lys Leu Ala
 50 55 60

 Ala Gly Glu Arg Ser Leu Ser Lys Gln Met Val Tyr Tyr Leu Trp Ser
 65 70 75 80

 Thr

<210> 5235
 <211> 85
 <212> PRT
 <213> Homo sapiens

 <400> 5235
 Ala Asp Lys Asn Glu Ile Leu Phe Ser Glu Phe Asn Ile Asn Tyr Asn
 1 5 10 15

 Asn Glu Leu Pro Met Tyr Arg Lys Gly Thr Val Leu Ile Trp Gln Lys
 20 25 30

 Val Asp Glu Val Met Thr Lys Glu Ile Lys Leu Pro Thr Glu Met Glu

4684

35					40					45						
Gly	Lys	Lys	Met	Ala	Val	Thr	Arg	Thr	Arg	Thr	Lys	Pro	Val	Pro	Leu	
50					55					60						
His	Cys	Asp	Ile	Ile	Gly	Asp	Ala	Phe	Trp	Lys	Glu	His	Pro	Glu	Ile	
65					70					75					80	
Leu	Asp	Glu	Asp	Ser												
85																

<210> 5236

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5236

Leu Glu Cys Trp Val Val Leu Ser Ile Ile Gly Val Lys Cys Gly Ala
1 5 10 15

Val Ala Tyr Thr Cys Asn Pro Ser Thr Leu Gly Lys Leu Xaa Trp Gly
20 25 30

Gly Ser Leu Glu Val Gln Glu Phe Glu Ala Thr Leu Gly Gln His Gly
35 40 45

Gly Thr Pro Ile Phe
50

<210> 5237

<211> 60

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

$\langle 222 \rangle$ (44)

4685

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5237

Glu	Lys	Xaa	Ser	Gly	Val	Val	Trp	Asp	Arg	Ser	Ala	Thr	His	Ser	Glu
1				5					10					15	
Met	Val	Gln	Glu	Asn	Gln	Phe	Phe	Met	Leu	Tyr	Phe	Gln	Ser	Leu	Tyr
		20						25					30		
Lys	Phe	Val	Phe	Val	Ser	Lys	Ile	Lys	Lys	Arg	Xaa	Lys	Met	Glu	Gly
		35					40					45			
Lys	Ile	Pro	Gly	Arg	Gln	Met	Asn	Lys	Arg	His	Glu				
	50					55					60				

<210> 5238

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5238

Lys	Arg	Lys	Lys	Ser	Phe	Trp	Gly	Met	Leu	Tyr	His	Ser	Asn	Gly	Ser
1				5					10					15	
Val	Thr	Thr	Tyr	Phe	Val	Leu	Ser	Met	Ser	Leu	Ile	Pro	Ser	Tyr	Glu
			20					25					30		
Thr	Ile	Trp	Leu	Asp	Tyr	Pro	Val	Tyr	Cys	Val	Glu	Ile	Lys	Val	Leu
		35					40					45			
Ile	Cys	Thr	Phe	Leu	Val	Gln	Tyr	Leu	Ser	Tyr					
	50					55									

<210> 5239

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5239

Tyr	Leu	His	Phe	His	Ile	Leu	Val	Ile	Cys	Leu	Leu	His	Thr	Trp	Gln
1				5					10					15	
Asn	Lys	Thr	Glu	Ile	Pro	Ser	Gln	Lys	Lys	Lys	Glu	Lys	Glu	Lys	Lys
		20						25				30			
Ile	Ala	Leu	Tyr	Leu	Phe	Leu	Val	Ser	Thr	Ala	Met	Lys	Ile	Leu	Asn
		35					40					45			

4686

Thr Pro Asn Ser Val Glu
50

<210> 5240

<211> 70

<212> PRT

<213> Homo sapiens

<400> 5240

Cys Phe Phe Phe Ile Val Phe Gln Ser Val Ser Ile His Leu Lys Lys
1 5 10 15

Lys Asn Arg Asn Asn Ser Arg Tyr Phe Lys Gln Lys Gly Ile Trp Trp
20 25 30

Lys Gly Leu Thr Ile Val Met Ser Gly Arg Leu Val Glu Pro Lys Arg
35 40 45

Arg Gly Cys Cys Pro Lys Ile Arg Lys Leu Pro Val Pro Thr Pro Thr
50 55 60

Ala Ala Leu Leu Glu Ala
65 70

<210> 5241

<211> 119

<212> PRT

<213> Homo sapiens

<400> 5241

Thr Gly Glu Ala Ala Leu Trp Gly Leu Pro Ala Ala Gly Ala Gly Glu
1 5 10 15

Arg His Val Asp Thr Trp Pro Leu Trp Leu Pro Pro Ala Arg Ser Ser
20 25 30

Ala Gly Pro Ser Pro Trp Gly Trp Ala Ser Cys Ser Arg Ser Arg Thr
35 40 45

Pro Ser Gly Leu Lys Val Gly Glu Val Trp Trp Trp Arg Trp Gly Gly
50 55 60

Ser Glu Lys Cys Lys Arg Pro Val Gly Leu Gln Gln Lys Glu Ala Ser
65 70 75 80

Gly Gly Trp Asp Gly Gly Gln Trp Gly Lys Ala Leu Gly Ser Ile Gly

4687

	85		90		95
Gly Ser Leu Ala Ala Asn Ser Leu Asp Phe Gly Gly Gln Val Arg Pro					
	100		105		110
Ala Ser Leu Ala Pro Ala Ala					
	115				

<210> 5242

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5242

Gly Pro Xaa Lys Glu Arg Arg Phe Gly Ala Val Ala Cys Gly Val Ala
1 5 10 15

Met Glu Leu Tyr Val Phe Gly Gly Val Arg Ser Arg Glu Asp Ala Gln
20 25 30

Gly Ser Glu Met Val Thr Cys Lys Ser Glu Phe Tyr His Asp Glu Phe
35 40 45

Lys Arg Trp Ile Tyr Leu Asn Asp Gln Asn Leu Cys Ile Pro Ala Ser
50 55 60

Ser Ser Phe Val Tyr Gly Ala Val Pro Ile Gly Ala Ser Ile Tyr Val
65 70 75 80

Ile Gly Asp Leu Asp Thr Gly Thr Asn Tyr Asp Tyr Val Arg Glu Phe
85 90 95

Lys Arg Ser Thr Gly Thr Trp His Xaa Xaa Lys Pro Leu Leu Pro Ser
100 105 110

4688

Asp Leu Arg Arg Thr Gly Cys Ala Ala Leu Arg Ile Ala Asn Cys Lys
 115 120 125

Leu Phe Arg Leu Gln Leu Gln Gln Gly Leu Phe Arg Ile Arg Val His
 130 135 140

Ser Pro
 145

<210> 5243

<211> 104

<212> PRT

<213> Homo sapiens

<400> 5243

Asp Gly Pro Ala Lys Cys Arg Pro Leu Leu Leu Asn Lys Asn Ile Leu
 1 5 10 15

Lys Pro Leu Phe Leu Leu His Gly Gln Glu Ala Ala Arg Glu Ser Ala
 20 25 30

Arg Val Pro Trp Ser Glu Leu Ala Ser Pro Cys Leu Leu Cys Pro Arg
 35 40 45

Ala Ala Trp Phe Leu Val Gln Cys Ser Asp Thr Ala Cys Pro Ser Pro
 50 55 60

Thr Ser Ser Gln Gln His Leu Leu Ser Leu Ala Ala Met Ala Met Thr
 65 70 75 80

Thr Pro Glu Lys Gln Leu Gln Gly Pro Ser Gln Ile Leu Phe Cys Leu
 85 90 95

His Ala Ser Ala Gly Cys Arg Tyr
 100

<210> 5244

<211> 461

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

4689

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (241)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5244
 Ile Glu Thr Ser Asn Lys Asn Asp Met Thr Ile Asp Ile Leu His Ala
 1 5 10 15
 Asp Gly Glu Arg Pro Asn Val Leu Glu Asn Leu Asp Asn Ser Lys Glu
 20 25 30
 Lys Thr Val Gly Ser Glu Ala Ala Lys Thr Glu Asp Thr Val Leu Cys
 35 40 45
 Ser Ser Asp Thr Asp Glu Glu Cys Leu Ile Ile Xaa Thr Glu Cys Lys
 50 55 60
 Asn Asn Ser Asp Gly Lys Thr Ala Val Val Gly Ser Asn Leu Ser Ser
 65 70 75 80
 Arg Pro Ala Ser Pro Asn Ser Ser Ser Gly Gln Ala Ser Val Gly Asn
 85 90 95
 Gln Thr Asn Thr Ala Cys Xaa Pro Glu Glu Ser Cys Val Leu Lys Lys
 100 105 110
 Pro Ile Lys Arg Val Tyr Lys Lys Phe Asp Pro Val Gly Glu Ile Leu
 115 120 125
 Lys Met Gln Asp Glu Leu Xaa Lys Pro Ile Ser Arg Lys Val Pro Glu
 130 135 140
 Leu Pro Leu Met Asn Leu Glu Asn Ser Lys Gln Pro Ser Val Ser Glu
 145 150 155 160
 Gln Leu Ser Gly Pro Ser Asp Ser Ser Ser Trp Pro Lys Ser Gly Trp
 165 170 175
 Pro Ser Ala Phe Gln Lys Pro Lys Gly Arg Leu Pro Tyr Glu Leu Gln
 180 185 190

4690

Asp	Tyr	Val	Glu	Asp	Thr	Ser	Glu	Tyr	Leu	Ala	Pro	Gln	Glu	Gly	Asn	195	200	205	
Phe	Val	Tyr	Lys	Leu	Phe	Ser	Leu	Gln	Asp	Leu	Leu	Leu	Leu	Val	Arg	210	215	220	
Cys	Ser	Val	Gln	Arg	Ile	Glu	Thr	Arg	Pro	Arg	Ser	Lys	Lys	Arg	Lys	225	230	235	240
Xaa	Ile	Arg	Arg	Gln	Phe	Pro	Val	Tyr	Val	Leu	Pro	Lys	Val	Glu	Tyr	245	250	255	
Gln	Ala	Cys	Tyr	Gly	Val	Glu	Ala	Leu	Thr	Glu	Ser	Glu	Leu	Cys	Arg	260	265	270	
Leu	Trp	Thr	Glu	Ser	Leu	Leu	His	Ser	Asn	Ser	Ser	Phe	Tyr	Val	Gly	275	280	285	
His	Ile	Asp	Ala	Phe	Thr	Ser	Lys	Leu	Phe	Leu	Leu	Glu	Glu	Ile	Thr	290	295	300	
Ser	Glu	Glu	Leu	Lys	Glu	Lys	Leu	Ser	Ala	Leu	Lys	Ile	Ser	Asn	Leu	305	310	315	320
Phe	Asn	Ile	Leu	Gln	His	Ile	Leu	Lys	Lys	Leu	Ser	Ser	Leu	Gln	Glu	325	330	335	
Gly	Ser	Tyr	Leu	Leu	Ser	His	Ala	Ala	Glu	Asp	Ser	Ser	Leu	Leu	Ile	340	345	350	
Tyr	Lys	Ala	Ser	Asp	Gly	Lys	Val	Thr	Arg	Thr	Ala	Tyr	Asn	Leu	Tyr	355	360	365	
Lys	Thr	His	Cys	Gly	Leu	Pro	Gly	Val	Pro	Ser	Ser	Leu	Ser	Val	Pro	370	375	380	
Trp	Val	Pro	Leu	Asp	Pro	Ser	Leu	Leu	Leu	Pro	Tyr	His	Ile	His	His	385	390	395	400
Gly	Arg	Ile	Pro	Cys	Thr	Phe	Pro	Pro	Lys	Ser	Leu	Asp	Thr	Thr	Thr	405	410	415	
Gln	Gln	Lys	Ile	Gly	Gly	Thr	Arg	Met	Pro	Thr	Arg	Ser	His	Arg	Asn	420	425	430	
Pro	Val	Ser	Met	Glu	Thr	Lys	Ser	Ser	Cys	Leu	Pro	Ala	Gln	Gln	Val	435	440	445	
Glu	Thr	Glu	Gly	Val	Ala	Pro	His	Lys	Arg	Lys	Ile	Thr				450	455	460	

4691

<210> 5245

<211> 121

<212> PRT

<213> Homo sapiens

<400> 5245

```

Leu Tyr Ser Pro Phe Gln Phe Phe Leu Pro Leu Phe Leu Phe Leu Ser
 1             5             10             15

Cys Ser Pro Leu Ser Ala Leu Gln Asp Phe Pro Ala Thr Trp Val Leu
          20             25             30

Val Leu Lys Leu Pro Tyr Thr Phe Thr Val Phe Phe Leu Leu Pro Phe
          35             40             45

Phe Leu Ile Phe Ile Ser Phe Leu Asn Phe Leu Ser Leu Ser Ser Leu
          50             55             60

Pro Phe Leu Leu Ser Phe Leu Phe Val His Val Ile Ser Ser Pro Cys
          65             70             75             80

Leu Pro Pro Leu Thr Phe Leu Tyr Phe Leu Ser Leu Pro Pro Tyr Tyr
          85             90             95

Ser Phe Leu Phe Leu Val Leu Gln Phe Asn Tyr Phe Lys His Ile Thr
          100             105             110

His Lys Ala Cys His Ser Leu Asp Phe
          115             120

```

<210> 5246

<211> 79

<212> PRT

<213> Homo sapiens

<400> 5246

```

Thr Leu His Thr Ala His Pro Ser Pro Val Leu Thr Leu Cys Ser Tyr
 1             5             10             15

His Ser Leu Ala Ala Cys His Ala Val Gly Leu Gln Ile Cys Thr His
          20             25             30

Lys Phe Leu Arg Lys Ser Leu His Glu His His Leu Ala Ile Phe Cys
          35             40             45

Thr Asp Gln Thr Arg Asp Leu Asn Val Phe Gln His Lys Arg Ile Thr

```

4692

50

55

60

Ser Glu Trp Trp Ser Val Arg Ile Leu Ala Lys Val Met Val Ile
 65 70 75

<210> 5247

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5247

Leu Glu Glu Thr Leu Phe Leu Gln Gly Thr Lys Gln Leu Tyr Phe Ser
 1 5 10 15

Thr Asp Met His Tyr Phe His Cys Glu Phe Thr Phe Leu Leu His Val
 20 25 30

Gln Met Ser Leu Phe Val Phe Phe Phe Cys Asn Ile Asn Cys Asn Asp
 35 40 45

Val Leu Pro Gly Ile His Glu Asn Ile Ile Lys Thr His Phe
 50 55 60

<210> 5248

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5248

Pro Gly Glu Pro Lys Pro Thr Pro Arg Gly Lys Pro Gly Gln Thr Gly
 1 5 10 15

4693

Gly Pro Pro Ser Trp Tyr Xaa Pro Xaa Lys Leu Ile Ala Leu Xaa Gly
 20 25 30

Gly Gly Glu Lys Thr Pro Thr His Leu Val Arg Glu Val Phe Cys Leu
 35 40 45

Tyr Cys Gly Val Arg Ala Glu Glu Lys Ser Leu Phe Phe Pro Leu Arg
 50 55 60

Leu Cys Phe Lys Glu Gln Gly Arg Gly Lys Phe Cys Gly Phe
 65 70 75

<210> 5249

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5249

Lys Leu Thr Lys Cys Pro Val Arg Trp Leu Arg Pro Ala Ile Pro Ala
 1 5 10 15

Leu Trp Glu Ala Glu Val Gly Gly Ser Leu Glu Ala Arg Ser Leu Arg
 20 25 30

Thr Ala Trp Pro Thr Trp Arg Asn Pro Val Ser Thr Ile Xaa Thr Lys
 35 40 45

Phe Asn Gln Ala Trp Trp Trp Ala Pro Val Val Pro Ala Tyr Leu Gly
 50 55 60

Asp Leu Ser His Glu Glu Ser Leu Xaa Pro Ser Trp Val Gly Xaa Leu
 65 70 75 80

4694

<210> 5250

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5250

```

Pro Pro Gly Ser Asn Lys Pro Pro Ala Ser Ala Tyr Gln Val Ala Glu
 1             5             10             15

Thr Thr Gly Thr Tyr His Arg Ala Cys Leu Ile Phe Lys Ile Phe Tyr
      20             25             30

Lys Asp Glu Val Ser Leu Cys Cys Pro Gly Trp Ser Gln Thr Pro Asn
      35             40             45

Leu Lys Gln Ser Ala His Val Gly Leu Pro Lys Cys
      50             55             60

```

<210> 5251

<211> 69

<212> PRT

<213> Homo sapiens

<400> 5251

```

Val Tyr Gly Asn Tyr Leu Ile Ile Leu Lys Arg Thr His Phe Ser Cys
 1             5             10             15

Lys Tyr Val Thr Ser Glu Phe Lys Lys Ile Thr Leu Asn Thr Leu Ile
      20             25             30

Phe Ala Ala Phe Phe Ser Val Tyr Ile Thr Cys Leu Leu Ser Glu Trp
      35             40             45

Glu Tyr Met Cys Ala Ser Gln His Leu Leu Leu Lys Cys Val Ile Phe
      50             55             60

Ile Cys Gln Thr Gly
      65

```

<210> 5252

<211> 54

<212> PRT

<213> Homo sapiens

4695

<400> 5252

Arg His Lys Asp Thr Phe Arg Ile Val Lys Thr Leu Ser Ile Glu Lys
 1 5 10 15

Phe Leu Asn Glu Thr Val Ser Lys Lys Ser Phe Ala Ser Arg Phe Leu
 20 25 30

Arg Gly Ala Ile Lys Lys Arg Thr Leu Pro Val Val Thr Ala Ala Ala
 35 40 45

Ile Ala Pro Leu Tyr Cys
 50

<210> 5253

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5253

Phe His Leu Gln Gln Leu Leu Glu Arg Lys Pro Asp Asn Tyr Met Thr
 1 5 10 15

Leu Ser Arg Leu Ile Asp Leu Leu Arg Arg Cys Gly Lys Leu Glu Asp
 20 25 30

Val Pro Arg Phe Phe Ser Met Ala Glu Lys Arg Asn Ser Arg Ala Lys
 35 40 45

Leu Glu Pro Gly Phe Gln Tyr Cys Lys Gly Leu Tyr Leu Trp Tyr Thr
 50 55 60

Gly Xaa Xaa Asn Asp Ala Leu Arg His Phe Asn Lys Ala Arg Lys Asp
 65 70 75 80

Arg Asp Trp Gly Gln Asn Ala Leu Tyr Asn Met Ile Glu Asn Leu Phe
 85 90 95

Glu Ser Arg

4696

<210> 5254

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5254

Ser	Val	Leu	Trp	Asn	Ala	Met	Ile	His	Pro	Leu	Cys	Asn	Met	Thr	Leu
1				5					10					15	

Lys	Gly	Val	Val	Trp	Tyr	Gln	Gly	Glu	Ser	Asn	Ile	Asn	Tyr	Asn	Thr
			20					25					30		

Asp	Leu	Tyr	Asn	Cys	Thr	Phe	Pro	Ala	Leu	Ile	Glu	Asp	Trp	Arg	Glu
			35				40					45			

Thr	Phe	His	Arg	Gly	Ser	Gln	Gly	Gln	Thr	Glu	Arg	Phe	Phe	Pro	Phe
						55					60				

Gly	Leu	Val	Gln	Leu	Ser	Ser	Asp	Leu	Ser	Lys	Lys	Xaa	Ser	Asp	Asp
65					70					75					80

Gly	Phe	Pro	Gln	Ile	Arg	Trp	His	Gln	Thr	Ala	Asp	Phe	Gly	Tyr	Val
				85					90					95	

Pro	Asn	Pro	Lys	Met	Pro	Asn	Thr	Phe	Met	Ala	Val	Ala	Met	Asp	Leu
			100					105					110		

Cys	Asp	Arg	Asp	Ser	Pro	Phe	Gly	Ser	Ile	His	Pro	Arg	Asp	Lys	Gln
		115					120					125			

Asn	Cys	Gly	Leu	Ser	Ala	Ala	Phe	Gly	Gly	Pro	Cys	Ser	Gly	Leu	Trp
	130					135					140				

<210> 5255

<211> 56

<212> PRT

<213> Homo sapiens

4697

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5255

Val	Leu	Pro	Leu	Leu	Pro	Lys	Val	Leu	Gly	Leu	Arg	His	His	Thr	Gln
1				5					10					15	

Pro	Lys	Leu	Lys	Ala	Ile	Phe	Ser	Asn	Ser	His	Gln	Cys	Gly	Tyr	Cys
			20					25					30		

Tyr	Lys	Xaa	Xaa	Trp	Phe	Leu	Gly	His	Ile	Trp	Tyr	Gln	Asn	Val	Tyr
		35					40					45			

Val	Tyr	Pro	Tyr	Lys	Tyr	Gly	Met
	50					55	

<210> 5256

<211> 434

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (347)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5256

Asn	Leu	Asn	Met	Glu	Ala	Thr	Gly	Thr	Asp	Glu	Val	Asp	Lys	Leu	Lys
1				5					10					15	

Thr	Lys	Phe	Ile	Ser	Ala	Trp	Asn	Asn	Met	Lys	Tyr	Ser	Trp	Val	Leu
			20					25					30		

Lys	Thr	Lys	Thr	Tyr	Phe	Ser	Arg	Asn	Ser	Pro	Val	Leu	Leu	Leu	Gly
		35					40					45			

Lys	Cys	Tyr	His	Phe	Lys	Tyr	Glu	Asp	Glu	Asp	Lys	Thr	Leu	Pro	Ala
	50					55					60				

Glu	Ser	Gly	Cys	Thr	Ile	Glu	Asp	His	Val	Ile	Ala	Gly	Asn	Val	Glu
65					70					75				80	

4698

Glu	Phe	Arg	Lys	Asp	Phe	Ile	Ser	Arg	Ile	Trp	Leu	Thr	Tyr	Arg	Glu	85	90	95
Glu	Phe	Pro	Gln	Ile	Glu	Gly	Ser	Ala	Leu	Thr	Thr	Asp	Cys	Gly	Trp	100	105	110
Gly	Cys	Thr	Leu	Arg	Thr	Gly	Gln	Met	Leu	Leu	Ala	Gln	Gly	Leu	Ile	115	120	125
Leu	His	Phe	Leu	Gly	Arg	Ala	Trp	Thr	Trp	Pro	Asp	Ala	Leu	Asn	Ile	130	135	140
Glu	Asn	Ser	Asp	Ser	Glu	Ser	Trp	Thr	Ser	His	Thr	Val	Lys	Lys	Phe	145	150	155
Thr	Ala	Ser	Phe	Glu	Ala	Ser	Leu	Ser	Gly	Glu	Arg	Glu	Phe	Lys	Thr	165	170	175
Pro	Thr	Ile	Ser	Leu	Lys	Glu	Thr	Ile	Gly	Lys	Tyr	Ser	Asp	Asp	His	180	185	190
Glu	Met	Arg	Asn	Glu	Val	Tyr	His	Arg	Lys	Ile	Ile	Ser	Trp	Phe	Gly	195	200	205
Asp	Ser	Pro	Leu	Ala	Leu	Phe	Gly	Leu	His	Gln	Leu	Ile	Glu	Tyr	Gly	210	215	220
Lys	Lys	Ser	Gly	Lys	Lys	Ala	Gly	Asp	Trp	Tyr	Gly	Pro	Ala	Val	Val	225	230	235
Ala	His	Ile	Leu	Arg	Lys	Ala	Val	Glu	Glu	Ala	Arg	His	Pro	Asp	Leu	245	250	255
Gln	Gly	Ile	Thr	Ile	Tyr	Val	Ala	Gln	Asp	Cys	Thr	Val	Pro	Val	Arg	260	265	270
Leu	Gly	Gly	Glu	Arg	Thr	Asn	Thr	Asp	Tyr	Leu	Glu	Phe	Val	Lys	Gly	275	280	285
Ile	Leu	Ser	Leu	Glu	Tyr	Cys	Val	Gly	Ile	Ile	Gly	Gly	Lys	Pro	Lys	290	295	300
Gln	Ser	Tyr	Tyr	Phe	Ala	Gly	Phe	Gln	Asp	Asp	Ser	Leu	Ile	Tyr	Met	305	310	315
Asp	Pro	His	Tyr	Cys	Gln	Ser	Phe	Val	Asp	Val	Ser	Ile	Lys	Asp	Phe	325	330	335
Pro	Leu	Glu	Thr	Phe	His	Cys	Pro	Ser	Pro	Xaa	Lys	Met	Ser	Phe	Arg	340	345	350

4699

Lys Met Asp Pro Ser Cys Thr Ile Gly Phe Tyr Cys Arg Asn Val Gln
 355 360 365

Asp Phe Lys Arg Ala Ser Glu Glu Ile Thr Lys Met Leu Lys Phe Ser
 370 375 380

Ser Lys Glu Lys Tyr Pro Leu Phe Thr Phe Val Asn Gly His Ser Arg
 385 390 395 400

Asp Tyr Asp Phe Thr Ser Thr Thr Thr Asn Glu Glu Asp Leu Phe Ser
 405 410 415

Glu Asp Glu Lys Lys Gln Leu Lys Arg Phe Ser Thr Glu Glu Phe Val
 420 425 430

Leu Leu

<210> 5257

<211> 68

<212> PRT

<213> Homo sapiens

<400> 5257

Tyr Ile Ser Cys Ile Phe Tyr Asp Phe Ser Ile Lys His Ser Gly Val
 1 5 10 15

Leu Ala Phe Pro Gly Lys Gly Lys Leu Val Cys Ala Leu Val Lys Tyr
 20 25 30

Leu Asn Ser Asn Val Pro Tyr Ser Ala Cys Ile His Phe Val Lys Ser
 35 40 45

Phe Val Val Leu Leu Glu Gln Phe Ser Lys Ala Asp Phe Met Pro Tyr
 50 55 60

Leu Ile Glu Ile
 65

<210> 5258

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4700

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5258

Ile	Ala	Gly	Arg	Gly	Ile	Met	Ala	Cys	Gln	His	Ser	Leu	Cys	Pro	Xaa
1				5					10					15	

Asn	Leu	Arg	Pro	Arg	Met	Arg	Ser	Cys	Gln	His	Asn	Ile	His	Pro	Phe
			20					25					30		

Glu	Gln	Met	Glu	Ser	Gly	Thr	Leu	Thr	Gln	Pro	Ser	Val	Leu	Asn	Asn
		35					40					45			

Thr	Ala	Ile	Ile	Ala	Thr	Cys	Ser	Val	Val	Asn	Val	Asn	Pro	Gln	Ser
		50				55					60				

Gln	Leu	Asn	Tyr	Phe	Arg	Pro	Asn	Ile	Leu	Phe	Leu
65					70					75	

<210> 5259

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5259

Gln	Gly	Phe	Gly	Arg	Pro	Ser	Val	Tyr	His	Ala	Ala	Ile	Val	Xaa	Phe
1				5					10					15	

Leu	Glu	Phe	Phe	Ala	Trp	Gly	Leu	Leu	Thr	Thr	Pro	Met	Leu	Thr	Val
			20					25					30		

Leu	His	Glu	Thr	Phe	Ser	Gln	His	Thr	Phe	Leu	Met	Asn	Gly	Leu	Ile
		35					40					45			

Gln	Gly	Val	Lys	Gly	Leu	Leu	Ser	Phe	Leu	Ser	Ala	Pro	Leu	Ile	Gly
50				55				60							
Ala	Leu	Ser	Asp	Val	Trp	Gly	Arg	Lys	Pro	Phe	Leu	Leu	Gly	Thr	Val
65				70				75				80			
Phe	Phe	Xaa	Xaa	Phe	Pro	Ile	Pro	Leu	Met	Arg	Ile	Ser	Pro	Cys	Phe
				85				90				95			
Leu	Lys	Lys	Lys	Thr	His	Gln	Trp	Thr							
100				105											

<400> 5260

Cys Ile Thr Leu Leu His Phe Ala Asn
50 55

$\langle 220 \rangle$

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5261

Lys Thr Lys Asn Leu Val Pro Asn Ile
20 25

4702

<210> 5262

<211> 97

<212> PRT

<213> Homo sapiens

<400> 5262

Ser	Asp	Lys	Ala	Leu	Ala	Ser	Asp	Pro	Cys	Gln	Asn	Ser	Ile	Asn	Gly
1				5					10					15	

Cys	Leu	Glu	Val	Asp	Val	His	Ile	Tyr	Ser	Glu	Met	Phe	Cys	His	Leu
			20					25					30		

Arg	Pro	Met	Arg	Arg	Leu	Cys	Leu	Glu	Lys	Ile	Phe	Pro	His	Trp	Phe
		35					40					45			

Pro	Phe	Ser	Arg	Ala	Leu	Ser	Gly	Ala	Glu	Ala	Val	Asn	Ala	Leu	Arg
	50					55					60				

Pro	Phe	Tyr	Phe	Ala	Val	His	Pro	Asp	Phe	Phe	Gly	Gln	His	Pro	Val
65					70					75					80

Glu	Arg	Asp	Asp	Thr	Trp	Lys	Ser	Phe	Gln	Cys	Pro	Ser	Asp	Phe	Ser
				85					90					95	

Leu

<210> 5263

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

4703

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5263
 Ala Ser Cys Arg Thr Xaa Ser Arg Met Ala Ile Phe Glu Leu Val Ser
 1 5 10 15
 Lys Xaa Arg Xaa Leu Tyr Leu Xaa Gln Lys Ile Leu Cys Glu Leu Ser
 20 25 30
 Gly His Xaa Asp Leu Phe Val Asp Val Asn Lys His Leu Phe Asp Gly
 35 40 45
 Glu Val Cys Ala Ile Asn His Phe Val Lys Leu Leu Lys Asp Ile Ile
 50 55 60
 Ile Cys Phe Leu Asn Ile Arg Ala Lys Asn Val Ala Gln Asn Pro Leu
 65 70 75 80
 Lys His His Ser Glu Arg Thr Asp Met Lys Thr Leu Ser Arg Lys His
 85 90 95
 Trp Ser Ser Val Gln Asp Tyr Lys Cys Ser Ser Phe Ala Asn Thr Ser
 100 105 110
 Ser Lys Phe Arg His Leu Leu Ser Asn Asp Gly Tyr Pro Phe Lys
 115 120 125

<210> 5264
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 5264
 Asp Ser Phe Ile Leu His Leu Phe Ile Gln Leu Ile Phe Val Glu His
 1 5 10 15
 Leu His Val Pro Asp Ile Ile Lys Cys Trp Val Tyr Gly Asn Glu Gln
 20 25 30
 Asn Arg Gln Gly Pro Cys Pro Phe Arg Gly Asp Arg
 35 40

4704

<210> 5265

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5265

Leu	Lys	Ile	Asp	Thr	Asn	Arg	Ile	Arg	Thr	Glu	Asn	Gly	Ser	Ile	Leu
1				5					10					15	

Pro	Ser	Val	Val	Pro	Gln	Glu	His	Asn	Thr	Leu	Pro	Val	Ser	Gln	Ala
			20					25					30		

Pro	Ser	Lys	Pro	Asn	Leu	Thr	Ser	Glu	His	Thr	Ser	Tyr	Gly	Leu	Ile
		35					40					45			

Leu	Thr	Lys	Pro	Tyr	Val	Arg	Pro	Leu	Pro	Pro	Ser	Tyr	Leu	Asp	Glu
	50					55					60				

Arg	Tyr	Leu	Xaa	Met	Pro	Lys	Arg	Arg	Lys	Phe	Leu	Thr	Asp	Arg	Val
65					70					75					80

Xaa	Ala	Cys	Ser	Asp	Gln	Asp	Asn	Val	Tyr	Lys	Lys	Ser	Val	Lys	Arg
				85					90					95	

Leu	Arg	Cys	Gly	Lys	Cys	Leu	Thr	Thr	Tyr	Cys	Asn	Ala	Xaa	Ala	Leu
			100					105					110		

Glu	Ala	His	Leu	Ala	Gln	Lys	Lys	Cys	Gln	Thr	Leu	Phe	Gly	Ile	
		115				120						125			

<210> 5266

4705

<211> 225

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5266

Leu Pro Gly Pro Gly Ala Cys Pro Glu Gly Val Trp Thr Leu Asn Ser
 1 5 10 15

Ala Pro Thr Gln Gly Pro Thr Ala Ala Pro Gly Ala Cys His Pro Gly
 20 25 30

Leu Leu Gly Arg Gly Gln Gly Leu Xaa Leu Gly Leu Pro Ser Thr Pro
 35 40 45

Gly Thr Pro Thr Pro Thr Pro His Thr Ser Leu Gly Ser Pro Val Ser
 50 55 60

Ser Asp Pro Val His Met Ser Pro Leu Glu Pro Arg Gly Gly Gln Gly
 65 70 75 80

Asp Gly Leu Ala Leu Val Leu Ile Leu Ala Phe Cys Val Ala Gly Ala
 85 90 95

Ala Ala Leu Ser Val Ala Ser Leu Cys Trp Cys Arg Leu Gln Arg Glu
 100 105 110

Ile Arg Leu Thr Gln Lys Ala Asp Tyr Ala Thr Ala Lys Ala Pro Gly
 115 120 125

Ser Pro Ala Ala Pro Arg Ile Ser Pro Gly Asp Gln Arg Leu Ala Gln
 130 135 140

Ser Ala Glu Met Tyr His Tyr Gln His Gln Arg Gln Gln Met Leu Cys
 145 150 155 160

Leu Glu Arg His Lys Glu Pro Pro Lys Glu Leu Asp Thr Ala Ser Ser
 165 170 175

Asp Glu Glu Asn Glu Asp Gly Asp Phe Thr Val Tyr Glu Cys Pro Gly
 180 185 190

Leu Ala Pro Thr Gly Glu Met Glu Val Arg Asn Pro Leu Phe Asp His
 195 200 205

Ala Ala Leu Ser Ala Pro Leu Pro Ala Pro Ser Ser Pro Pro Ala Leu
 210 215 220

4706

Pro
225

<210> 5267

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5267

Xaa	Phe	Cys	Val	Ala	Gly	Ala	Ala	Ala	Leu	Ser	Val	Ala	Ser	Leu	Cys
1				5					10					15	

Trp	Cys	Arg	Leu	Gln	Arg	Glu	Ile	Arg	Leu	Thr	Gln	Lys	Ala	Asp	Tyr
			20					25					30		

Ala	Thr	Ala	Lys	Ala	Pro	Gly	Ser	Pro	Ala	Ala	Pro	Arg	Ile	Ser	Pro
			35				40					45			

Gly	Asp	Gln	Arg	Leu	Ala	Gln	Ser	Ala	Glu	Met	Tyr	His	Tyr	Gln	His
	50					55					60				

Gln	Arg	Gln	Gln	Met	Leu	Cys	Leu	Glu	Arg	Xaa	Glu	Val	Gly	Xaa	Xaa
65					70					75				80	

Pro	Thr	Ser	Arg	Leu	Gly	His	Trp	His	Leu	Glu	Gly	Met	Gly	Arg	Thr
				85					90					95	

Gln Arg Ser Pro Pro Thr Gln Ala

4707

100

<210> 5268

<211> 86

<212> PRT

<213> Homo sapiens

<400> 5268

Glu Pro His Leu Ser Met Cys Lys Arg Cys Ile Pro Arg Pro Val Asn
 1 5 10 15

Gly Ser Leu Arg Lys Phe Cys Met Gln Ala Val Phe Ser Ser Arg Thr
 20 25 30

Asn Asn Trp Glu Ile Ser Lys Lys Leu His Arg Ser Pro Ala Trp Cys
 35 40 45

Cys Ser Ser Leu Tyr Phe Thr Leu Asn Ser Gly Trp Glu Glu Lys Gly
 50 55 60

Asn Lys Leu Trp Leu Phe Pro Ser Gln Lys Tyr Cys Gly Thr Ser Thr
 65 70 75 80

Phe Gln Cys Phe Ala Phe
 85

<210> 5269

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5269

His Cys Glu Cys Cys Ser Asp Ile Leu Tyr Arg His Leu Thr Ala Gln
 1 5 10 15

Asn Phe Cys Phe Ile Ser Cys Leu Thr Tyr Gln Lys Gly Arg Lys Val
 20 25 30

Gly Met Ile Ser Lys Val Lys Lys Lys Lys Lys Lys Lys Thr Phe Tyr
 35 40 45

Arg Lys Leu Ile Asn Asn His Val Ile Leu Gln Phe Cys Tyr Gln Asn
 50 55 60

Phe Pro Gln Glu Phe Ser Asn Ile Ser Ser Ala Met Trp Leu
 65 70 75

4708

<210> 5270

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5270

Arg	Pro	Val	Arg	Thr	Tyr	Xaa	Ala	Lys	Leu	Leu	Ala	Phe	Gly	Ile	Pro
1				5					10					15	

Leu	Asp	Asn	Val	Gly	Phe	Lys	Pro	Leu	Glu	Thr	Ala	Val	Ile	Gly	Gln
			20					25					30		

Thr	Leu	Gly	Gln	Gly	Pro	Ala	Gly	Leu	Val	Gly	Thr	Pro	Thr
		35					40					45	

<210> 5271

<211> 49

<212> PRT

<213> Homo sapiens

<400> 5271

Lys	Ile	Phe	Cys	Arg	Asp	Lys	Leu	Ser	Leu	Cys	Phe	Pro	Gly	Trp	Ser
1				5					10					15	

Arg	Thr	Ser	Gly	Leu	Lys	Arg	Phe	Phe	Cys	Leu	Ser	Leu	Gln	Asn	Tyr
			20					25					30		

Trp	Asp	Tyr	Ser	Met	Ser	His	His	Ala	Gln	Leu	Tyr	Ser	Leu	Leu	Ile
		35					40					45			

Tyr

<210> 5272

<211> 68

<212> PRT

<213> Homo sapiens

<400> 5272

Lys Glu Ala Val Phe Pro Arg Lys Thr His Gln Pro Gly Leu Arg Lys

4709

1 5 10 15
 Lys Met Gly Pro Pro Ser Glu Gly Met Trp Trp Trp Lys His Ser Thr
 20 25 30
 Gly Pro Gly Phe Gly Ala Ser Phe Pro Pro Pro Gln Pro Met Leu Thr
 35 40 45
 Leu Pro Gly Lys Ala Pro Gly Ser Pro Gln Gly Arg Arg Lys Lys Arg
 50 55 60
 Gly Leu Cys Ser
 65

<210> 5273

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5273

Arg Thr Lys Arg Thr His Ala Gly Gly Arg Ser Arg Xaa Val Asp Pro
 1 5 10 15
 Arg Ala Ala Glu Phe Gly Thr Ala Arg Leu Gly Ser Leu Cys Lys Thr
 20 25 30
 Ser Pro Phe Leu Glu Met Met Met Pro Ser Lys Pro Gly Pro Gly Pro
 35 40 45
 Asp Leu Gln Ala His Thr Trp Pro Val Ala Leu Arg Ser Pro Gly
 50 55 60

<210> 5274

<211> 257

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

4710

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (256)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5274

Cys	Ser	Ile	Asn	Gly	Thr	Leu	Tyr	Gln	Pro	Gly	Ala	Val	Val	Ser	Ser
1				5					10					15	

Ser	Leu	Cys	Glu	Thr	Cys	Arg	Cys	Glu	Leu	Pro	Gly	Gly	Pro	Pro	Ser
			20					25					30		

Asp	Ala	Phe	Val	Val	Ser	Cys	Glu	Thr	Gln	Ile	Cys	Asn	Thr	His	Cys
		35					40					45			

Pro	Val	Gly	Phe	Glu	Tyr	Gln	Glu	Gln	Ser	Gly	Gln	Cys	Cys	Gly	Thr
	50					55					60				

Cys	Val	Gln	Val	Ala	Cys	Val	Thr	Asn	Thr	Ser	Lys	Ser	Pro	Ala	His
65					70					75					80

Leu	Phe	Tyr	Pro	Gly	Glu	Thr	Trp	Ser	Asp	Ala	Gly	Asn	His	Cys	Val
				85					90					95	

Thr	His	Gln	Cys	Glu	Lys	His	Gln	Asp	Gly	Leu	Val	Val	Val	Thr	Thr
		100						105					110		

Lys	Lys	Ala	Cys	Pro	Pro	Leu	Xaa	Cys	Ser	Leu	Asp	Glu	Ala	Arg	Met
		115					120					125			

Ser	Lys	Asp	Gly	Cys	Cys	Arg	Phe	Cys	Pro	Xaa	Pro	Xaa	Pro	Pro	Tyr
	130					135					140				

Gln	Asn	Gln	Ser	Thr	Cys	Ala	Val	Tyr	His	Arg	Ser	Leu	Ile	Ile	Gln
145					150					155					160

Gln	Gln	Gly	Cys	Ser	Ser	Ser	Glu	Pro	Val	Arg	Leu	Ala	Tyr	Cys	Arg
			165						170					175	

Gly	Asn	Cys	Gly	Asp	Ser	Ser	Ser	Met	Tyr	Ser	Leu	Glu	Gly	Asn	Thr
			180					185					190		

4711

Val Glu His Arg Cys Gln Cys Cys Gln Glu Leu Arg Thr Ser Leu Arg
 195 200 205

Asn Val Thr Leu His Cys Thr Asp Gly Ser Ser Arg Ala Phe Ser Tyr
 210 215 220

Thr Glu Val Glu Glu Cys Gly Cys Met Gly Arg Arg Cys Pro Ala Pro
 225 230 235 240

Gly Asp Thr Gln His Ser Glu Glu Ala Glu Pro Glu Pro Ser Gln Xaa
 245 250 255

Ala

<210> 5275
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 5275

Asn Phe Lys Ser Ile His Phe Thr His Leu Phe Cys Leu Phe Thr Lys
 1 5 10 15

Leu Phe Leu Lys Arg Ala Leu Cys His Gln Asn Met Leu Asp Leu Ile
 20 25 30

Ile Leu Arg Ser Leu Leu Ser Lys Tyr Leu Val Tyr Ile Phe Ser Leu
 35 40 45

Ala Asn Leu Cys Val Tyr Ile His Ser Ile
 50 55

<210> 5276
 <211> 205
 <212> PRT
 <213> Homo sapiens

<400> 5276

Asn Ser Ala Glu Ala Val Glu Arg Asn Leu Val Arg Val Ala Glu Val
 1 5 10 15

Trp Leu Asp Glu Tyr Lys Glu Leu Phe Tyr Gly His Gly Asp His Leu
 20 25 30

Ile Asp Gln Gly Leu Asp Val Gly Asn Leu Thr Gln Gln Arg Glu Leu

4712

35	40	45
Arg Lys Lys Leu Lys Cys Lys Ser Phe Lys Trp Tyr Leu Glu Asn Val		
50	55	60
Phe Pro Asp Leu Arg Ala Pro Ile Val Arg Ala Ser Gly Val Leu Ile		
65	70	75
Asn Val Ala Leu Gly Lys Cys Ile Ser Ile Glu Asn Thr Thr Val Ile		
85	90	95
Leu Glu Asp Cys Asp Gly Ser Lys Glu Leu Gln Gln Phe Asn Tyr Thr		
100	105	110
Trp Leu Arg Leu Ile Lys Cys Gly Glu Trp Cys Ile Ala Pro Ile Pro		
115	120	125
Asp Lys Gly Ala Val Arg Leu His Pro Cys Asp Asn Arg Asn Lys Gly		
130	135	140
Leu Lys Trp Leu His Lys Ser Thr Ser Val Phe His Pro Glu Leu Val		
145	150	155
Asn His Ile Val Phe Glu Asn Asn Gln Gln Leu Leu Cys Leu Glu Gly		
165	170	175
Asn Phe Ser Gln Lys Ile Leu Lys Val Ala Ala Cys Asp Pro Val Lys		
180	185	190
Pro Tyr Gln Lys Trp Lys Phe Glu Lys Tyr Tyr Glu Ala		
195	200	205

<210> 5277

<211> 188

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4713

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5277

Pro	Leu	Ala	Met	Asp	Ser	Gln	Lys	Glu	Ala	Leu	Gln	Arg	Ile	Ile	Ser
1				5					10					15	

Thr	Leu	Ala	Asn	Lys	Asn	Asp	Glu	Ile	Gln	Asn	Phe	Ile	Asp	Thr	Leu
			20					25					30		

His	His	Thr	Leu	Lys	Gly	Val	Gln	Glu	Asn	Ser	Ser	Asn	Ile	Leu	Ser
		35					40					45			

Glu	Leu	Asp	Glu	Glu	Phe	Asp	Ser	Leu	Tyr	Ser	Ile	Leu	Asp	Glu	Val
	50					55					60				

Lys	Glu	Ser	Met	Ile	Asn	Cys	Ile	Lys	Gln	Glu	Gln	Ala	Arg	Lys	Ser
65					70					75					80

Gln	Glu	Leu	Gln	Ser	Gln	Ile	Ser	Gln	Cys	Asn	Asn	Ala	Leu	Glu	Asn
				85					90					95	

Ser	Glu	Glu	Leu	Leu	Glu	Phe	Ala	Thr	Arg	Ser	Leu	Asp	Ile	Lys	Glu
			100					105					110		

Pro	Glu	Glu	Phe	Ser	Lys	Ala	Ala	Arg	Gln	Ile	Lys	Asp	Arg	Val	Thr
		115					120					125			

Met	Ala	Ser	Ala	Phe	Arg	Leu	Ser	Leu	Lys	Pro	Lys	Val	Ser	Asp	Asn
	130					135					140				

Met	Thr	His	Leu	Met	Val	Asp	Phe	Ser	Gln	Glu	Arg	Gln	Met	Leu	Gln
145					150					155					160

Thr	Leu	Lys	Phe	Phe	Ala	Ser	Pro	Gln	Xaa	Ser	Xaa	Ile	Asp	Pro	Val
			165						170					175	

Xaa	Ile	Val	Trp	Val	Gly	Xaa	Ile	Thr	Ser	Cys	Xaa
		180						185			

4714

<210> 5278

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5278

Phe	Lys	Ala	Ile	Asp	Asp	Leu	Tyr	Val	Gln	Ile	Lys	Glu	Lys	His	Val
1				5					10					15	

Trp	Glu	Lys	Asp	Cys	His	Phe	Tyr	Val	Asn	Xaa	Lys	Val	Leu	Ser	Glu
			20					25					30		

Leu	Tyr	Leu	Lys	Lys	Arg	Arg	Phe	Tyr	Lys	Ser	Lys	Glu	Ser	Leu	Asn
		35					40					45			

Thr	Met	Asn	Lys	Gly
				50

<210> 5279

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5279

Ile	Ile	Tyr	Ile	Phe	Leu	Lys	Pro	Glu	Leu	Lys	Met	Leu	Gln	Ala	Thr
1				5					10					15	

Gly	Tyr	Ser	Phe	Ile	Ser	Gly	Ser	Leu	Thr	Val	Val	Ser	Leu	Gly	Gln
			20					25					30		

Ala	Ile	Ser	Leu	Lys	Glu	Lys	Leu	Ile	Met	Tyr	Val	Gly	Cys	Gln	Asp
		35					40					45			

His	Cys	Leu	Glu	Ser	Lys	Cys	Asp	Phe	Tyr	Phe
		50				55				

<210> 5280

<211> 84

<212> PRT

<213> Homo sapiens

4715

<400> 5280

```

Asn Leu Ser Val Ala Leu Cys Leu Cys Ser Pro Gln Arg Lys Val Thr
 1              5              10              15

Arg Arg Gly Val Gln Phe Pro Arg Pro Gly Pro Tyr Arg Pro Pro Thr
              20              25              30

Gly Ala Pro Leu Cys Cys Tyr Ser Phe Cys Gln Leu Glu Ala Asp Gly
              35              40              45

Asp Gln Ala Leu Glu Lys Ala Arg Pro Glu Asp Gly Arg Phe Leu Ser
              50              55              60

Gly Gly Glu Leu Cys Leu Thr Asp Leu Asn Ile His Ser Val Leu Leu
 65              70              75              80

Cys Glu Asn Lys

```

<210> 5281

<211> 114

<212> PRT

<213> Homo sapiens

<400> 5281

```

Ser Lys Gly Ile Leu Val Phe Asn Leu Asp Arg Leu Arg Cys Gln Glu
 1              5              10              15

Lys Leu Gln Ser Gln Val Ser Arg Gln Pro Pro Gly Trp Ser Leu Ala
              20              25              30

Pro Pro Pro Pro Pro Leu Pro Thr Phe Ser Asn Val Leu His Ala Gly
              35              40              45

Ser Trp Gly Val Trp Gly Lys Gly Leu Pro Ala Ser Phe Arg Arg Leu
              50              55              60

Arg Phe Gly Gly Lys Ile Asn Leu Gly Asp His Pro Gly Arg Gly Ala
 65              70              75              80

Ser Val Asp Arg Trp Glu Glu Lys Lys Thr Ser Tyr Leu Gly Gly Gly
              85              90              95

Thr Ser Arg Phe Leu Ile Leu Ser Phe Phe Val Ala Pro Pro His Cys
              100              105              110

Pro Phe

```

4716

<210> 5282

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5282

Leu	Lys	Leu	Asn	Thr	Glu	Arg	Asp	Phe	Leu	Ser	Cys	Lys	Lys	Phe	Ile
1				5					10					15	

Asn	Ala	Lys	Gln	Lys	Glu	Asn	Ile	Tyr	Phe	Leu	Ser	Leu	Gln	Glu	Lys
			20					25					30		

Gln	Thr	Lys	His	Tyr	Ser	Phe	Ile	Ala	Ala	Ile	Leu	Leu	Thr	Lys	Gln
		35					40					45			

Xaa	Val	His	Asn	Ile	Lys	Asn	Leu	Thr
	50					55		

<210> 5283

<211> 61

<212> PRT

<213> Homo sapiens

<400> 5283

Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala	Val	Ala	Ala	Ala
1				5					10					15	

Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg	Asp	Phe
			20					25					30		

Leu	Cys	Met	Cys	Phe	Phe	Pro	Asp	Ser	Tyr	Ile	Ile	Gly	Tyr	Leu	Pro
		35					40					45			

Thr	Thr	Pro	Tyr	Thr	Tyr	Tyr	Phe	Gln	Asn	Leu	Ser	Arg
	50					55					60	

<210> 5284

<211> 92

<212> PRT

<213> Homo sapiens

4717

<220>
 <221> SITE
 <222> (63)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (89)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5284
 Lys Thr Tyr Lys Ile Gln Arg Ser Tyr Arg Ser Cys Ala Leu Tyr Asn
 1 5 10 15
 Val Ile Ile Val Thr Lys Gly Leu Ser Thr Trp Lys Phe Leu Asn Asp
 20 25 30
 Leu Leu Asn Asn Ser Phe Lys Gly Glu Ile Lys Ile Asn Cys Lys Leu
 35 40 45
 Phe Arg Ile Asn Lys Asn Phe Ser Lys Ala Glu Glu Phe Tyr Xaa Arg
 50 55 60
 Gly Val Arg Gly Asn Cys Ile Asp Phe Xaa Leu Leu Xaa Xaa Glu Glu
 65 70 75 80

4718

Arg Lys Xaa Lys Glu Xaa Ile Lys Xaa Phe Lys Ser
85 90

<210> 5285

<211> 557

<212> PRT

<213> Homo sapiens

<400> 5285

Arg Ala Cys Ala Leu Val Arg Ser Arg Arg Trp Gly Pro Asn Gln Pro
1 5 10 15

Arg Leu Arg Gly Pro Gln Ser Arg Thr Lys Thr Glu Gly Gly Ala Ala
20 25 30

Ser Gly Leu Arg Arg Leu His Thr Glu Arg Ala Pro Gly Pro Glu Gly
35 40 45

Ala Met Leu Trp Phe Gln Gly Ala Ile Pro Ala Ala Ile Ala Thr Ala
50 55 60

Lys Arg Ser Gly Ala Val Phe Val Val Phe Val Ala Gly Asp Asp Glu
65 70 75 80

Gln Ser Thr Gln Met Ala Ala Ser Trp Glu Asp Asp Lys Val Thr Glu
85 90 95

Ala Ser Ser Asn Ser Phe Val Ala Ile Lys Ile Asp Thr Lys Ser Glu
100 105 110

Ala Cys Leu Gln Phe Ser Gln Ile Tyr Pro Val Val Cys Val Pro Ser
115 120 125

Ser Phe Phe Ile Gly Asp Ser Gly Ile Pro Leu Glu Val Ile Ala Gly
130 135 140

Ser Val Ser Ala Asp Glu Leu Val Thr Arg Ile His Lys Val Arg Gln
145 150 155 160

Met His Leu Leu Lys Ser Glu Thr Ser Val Ala Asn Gly Ser Gln Ser
165 170 175

Glu Ser Ser Val Ser Thr Pro Ser Ala Ser Phe Glu Pro Asn Asn Thr
180 185 190

Cys Glu Asn Ser Gln Ser Arg Asn Ala Glu Leu Cys Glu Ile Pro Pro
195 200 205

4719

Thr	Ser	Asp	Thr	Lys	Ser	Asp	Thr	Ala	Thr	Gly	Gly	Glu	Ser	Ala	Gly	210	215	220	
His	Ala	Thr	Ser	Ser	Gln	Glu	Pro	Ser	Gly	Cys	Ser	Asp	Gln	Arg	Pro	225	230	235	240
Ala	Glu	Asp	Leu	Asn	Ile	Arg	Val	Glu	Arg	Leu	Thr	Lys	Lys	Leu	Glu	245	250	255	
Glu	Arg	Arg	Glu	Glu	Lys	Arg	Lys	Glu	Glu	Glu	Gln	Arg	Glu	Ile	Lys	260	265	270	
Lys	Glu	Ile	Glu	Arg	Arg	Lys	Thr	Gly	Lys	Glu	Met	Leu	Asp	Tyr	Lys	275	280	285	
Arg	Lys	Gln	Glu	Glu	Glu	Leu	Thr	Lys	Arg	Met	Leu	Glu	Glu	Arg	Asn	290	295	300	
Arg	Glu	Lys	Ala	Glu	Asp	Arg	Ala	Ala	Arg	Glu	Arg	Ile	Lys	Gln	Gln	305	310	315	320
Ile	Ala	Leu	Asp	Arg	Ala	Glu	Arg	Ala	Ala	Arg	Phe	Ala	Lys	Thr	Lys	325	330	335	
Glu	Glu	Val	Glu	Ala	Ala	Lys	Ala	Ala	Ala	Leu	Leu	Ala	Lys	Gln	Ala	340	345	350	
Glu	Met	Glu	Val	Lys	Arg	Glu	Ser	Tyr	Ala	Arg	Glu	Arg	Ser	Thr	Val	355	360	365	
Ala	Arg	Ile	Gln	Phe	Arg	Leu	Pro	Asp	Gly	Ser	Ser	Phe	Thr	Asn	Gln	370	375	380	
Phe	Pro	Ser	Asp	Ala	Pro	Leu	Glu	Glu	Ala	Arg	Gln	Phe	Ala	Ala	Gln	385	390	395	400
Thr	Val	Gly	Asn	Thr	Tyr	Gly	Asn	Phe	Ser	Leu	Ala	Thr	Met	Phe	Pro	405	410	415	
Arg	Arg	Glu	Phe	Thr	Lys	Glu	Asp	Tyr	Lys	Lys	Lys	Leu	Leu	Asp	Leu	420	425	430	
Glu	Leu	Ala	Pro	Ser	Ala	Ser	Val	Val	Leu	Leu	Pro	Ala	Gly	Arg	Pro	435	440	445	
Thr	Ala	Ser	Ile	Val	His	Ser	Ser	Ser	Gly	Asp	Ile	Trp	Thr	Leu	Leu	450	455	460	
Gly	Thr	Val	Leu	Tyr	Pro	Phe	Leu	Ala	Ile	Trp	Arg	Leu	Ile	Ser	Asn	465	470	475	480

4720

Phe Leu Phe Ser Asn Pro Pro Pro Thr Gln Thr Ser Val Arg Val Thr
485 490 495

Ser Ser Glu Pro Pro Asn Pro Ala Ser Ser Ser Lys Ser Glu Lys Arg
500 505 510

Glu Pro Val Arg Lys Arg Val Leu Glu Lys Arg Gly Asp Asp Phe Lys
515 520 525

Lys Glu Gly Lys Ile Tyr Arg Leu Arg Thr Gln Asp Asp Gly Glu Asp
530 535 540

Glu Asn Asn Thr Trp Asn Gly Asn Ser Thr Gln Gln Met
545 550 555

<210> 5286

<211> 43

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5286

Asn Asp Gln Asn Pro Glu Ser Gln Trp Ser Asn Asn Lys His Thr Gln
1 5 10 15

Ile Asp Cys Leu Ile Asn Ser Phe Xaa Leu Val Phe Lys Ser Asn Thr
20 25 30

Phe Phe Lys Ser Pro Leu Xaa Lys Met Ile Ile
35 40

<210> 5287

<211> 143

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

4721

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5287

Thr	Gly	Trp	Xaa	Xaa	Cys	Pro	Xaa	Pro	Gly	Pro	Gly	Arg	Arg	Thr	Met
1				5					10					15	

Ser	Arg	Gln	Lys	Glu	Thr	Leu	Gln	Ser	Ala	Phe	Pro	Ser	Met	Cys	Ala
		20						25					30		

Leu	Cys	Pro	Ser	Glu	Pro	Ala	Asp	Xaa	Arg	Gly	Gly	Lys	Asp	Thr	Val
		35					40					45			

Leu	Asn	Glu	Gln	Asn	Leu	Gln	Asp	Thr	Gln	Ser	Cys	Leu	Phe	Ala	Thr
	50					55					60				

Trp	Pro	Tyr	Ala	Cys	Pro	Val	Phe	Ser	Leu	Lys	Ala	Phe	Thr	His	Ala
65					70					75					80

Arg	Ala	Val	Thr	Trp	Asn	Val	Leu	Ser	Ile	Thr	Pro	Ala	Val	Met	Pro
				85					90					95	

Ser	Thr	Glu	Leu	Asp	Gly	Arg	Pro	Leu	His	Gly	Ser	Leu	Lys	Arg	Ser
		100						105					110		

His	Pro	Ser	Asn	Trp	Val	Cys	His	Arg	His	Thr	Gly	Ser	Cys	Leu	Pro
		115					120					125			

Val	Leu	Pro	Val	Val	Ile	Val	Met	Arg	Ile	Val	Val	Leu	His	Pro
	130					135					140			

<210> 5288

<211> 48

<212> PRT

4722

<213> Homo sapiens

<400> 5288

```

Ser Gly Gln Glu Pro Gly Phe Gln Gln Arg Glu Leu Glu Asn Glu Pro
 1             5             10             15

Arg Gly Ala Gly Ala Gly Gly Val Gly Glu Cys Gln Arg Ala Gly Met
                20             25             30

Asn Trp Gln Val Ala Trp Arg Gly Gly Leu Val Pro Lys Pro Val Leu
          35             40             45

```

<210> 5289

<211> 232

<212> PRT

<213> Homo sapiens

<400> 5289

```

Pro Ala Ser Ala Thr Thr Arg Thr Gly Pro Arg Pro Gly Pro Ala Pro
 1             5             10             15

Arg Cys Pro Leu Pro Ala Pro Gly His Ser Cys Thr Gln Ala Pro Pro
                20             25             30

Arg Glu His Thr Ala Val His Thr Arg Glu Lys Gln Gln Leu Ala Ser
          35             40             45

Leu Val Gly Thr Met Leu Ala Tyr Ser Leu Thr Tyr Arg Gln Glu Arg
          50             55             60

Thr Pro Asp Gly Gln Tyr Ile Tyr Arg Leu Glu Pro Asn Val Glu Glu
          65             70             75             80

Leu Cys Arg Phe Pro Glu Leu Pro Ala Arg Lys Pro Leu Thr Tyr Gln
                85             90             95

Thr Lys Gln Leu Ile Ala Arg Glu Ile Glu Val Glu Lys Met Arg Arg
                100             105             110

Ala Glu Ala Ser Ala Arg Val Glu Asn Ser Pro Gln Val Asp Gly Ser
                115             120             125

Pro Pro Gly Leu Glu Gly Leu Leu Gly Gly Ile Gly Glu Lys Gly Val
          130             135             140

His Arg Pro Ala Pro Arg Asn His Glu Gln Arg Leu Glu His Ile Met

```


4723

145 150 155 160
 Arg Arg Ala Ala Arg Glu Glu Gln Pro Glu Lys Asp Phe Phe Gly Arg
 165 170 175
 Val Val Val Arg Ser Thr Ala Val Pro Ser Ala Gly Asp Thr Ala Pro
 180 185 190
 Glu Gln Asp Ser Val Glu Arg Arg Met Gly Thr Ala Val Gly Arg Ser
 195 200 205
 Glu Val Trp Phe Arg Phe Asn Glu Gly Val Ser Asn Ala Val Arg Arg
 210 215 220
 Ser Leu Tyr Ile Arg Asp Leu Leu
 225 230

<210> 5290

<211> 92

<212> PRT

<213> Homo sapiens

<400> 5290

Ser Ile Thr Cys His Arg Glu Ser Glu Phe Leu Tyr Cys Leu Pro Ala
 1 5 10 15
 Ala Arg Thr Lys Ser Glu Trp Trp Gly Pro Arg Ser Ser Gln Leu Gly
 20 25 30
 Glu Lys Ala Leu Pro Asp Pro Gly Thr Arg Gly Leu Gly Gln Glu Ala
 35 40 45
 Gly Arg Met Gly Gly Cys Asp His Arg His Thr His Thr Arg Ser Leu
 50 55 60
 Ser Ser Gly Lys Gly Phe Pro Glu Ala Phe Ala His Thr Leu Asn Glu
 65 70 75 80
 Val Phe Ser Cys Gln Ala Lys Pro Pro Glu Glu Lys
 85 90

<210> 5291

<211> 40

<212> PRT

<213> Homo sapiens

<220>

4724

<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5291
Thr Ile Lys Cys Leu Leu Leu Tyr Lys Lys Lys Lys Lys Lys Lys Lys
1 5 10 15
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
20 25 30
Lys Lys Lys Lys Gly Xaa Pro Xaa
35 40

<210> 5292
<211> 50
<212> PRT
<213> Homo sapiens

<400> 5292
Val Glu Asn Leu Gln Arg Asn Asp Gly Cys Lys Trp Thr Cys Lys Pro
1 5 10 15
Lys Leu Gly Ile Gly Glu Val Arg Leu Thr Arg Leu Leu Val Arg Val
20 25 30
Leu Leu Asn Ser Leu Leu Met Arg Arg Cys Leu Asp Lys Tyr Lys Leu
35 40 45
Arg Lys
50

<210> 5293
<211> 57
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

4725

<400> 5293

Lys Pro Leu Ala Lys Xaa Arg Gly Ile Phe Phe Phe Ile Phe Lys Cys
1 5 10 15
Leu Gly Thr Lys Pro Lys Ser Lys Arg Leu Thr Lys His Val Ser Leu
20 25 30
Lys Ala Thr Cys Ile Leu Gln Tyr Asn Ile Lys Leu Phe Asn Leu Arg
35 40 45
Asn Leu Val Leu Leu Ile Cys Thr Phe
50 55

<210> 5294

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5294

Arg Thr Phe Met Lys Arg Trp Asn Cys Ser Tyr Lys Phe Phe Leu Leu
1 5 10 15
Leu Leu Phe Leu Asn Met Pro Trp Asn Asn Ser Thr Ile Phe Ser Pro
20 25 30
Ser Ile Asn Leu Ser Asn Lys Ala
35 40

<210> 5295

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

4726

<400> 5295

Asn Cys Glu Asp Ile Leu Lys Leu Cys Leu Val Tyr Lys Tyr Lys Asp
 1 5 10 15

Phe His Thr Asp Asn Tyr Gln Ile Pro Asn Thr Phe Thr Gly Lys Lys
 20 25 30

Pro Ser Val Lys Xaa Leu Pro Gly Ser Ser Ser Leu Lys Phe Ser Xaa
 35 40 45

Xaa

<210> 5296

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5296

Thr Thr Leu Xaa Arg Arg Ser Ser Leu Leu Asn Tyr Ile His Pro Asp
 1 5 10 15

Cys Gly Asp Asn His Thr Pro Gln Phe Arg Xaa Tyr Tyr Tyr Tyr Gln

4727

	20		25		30										
Ser	Val	Gln	Gly	Leu	Cys	Trp	Leu	Ile	Leu	Phe	Phe	Tyr	Pro	Leu	Tyr
	35						40					45			
His	Tyr	Ser	Pro	Ile	Ser	Ser	Xaa	Thr	Phe	Ile	Ser	Lys	Asn	Leu	Ile
	50					55					60				
Val	Trp	His	Leu	Ser	Leu	Asp	Met	Glu	Cys	Phe	Phe	Xaa	Lys	Xaa	
	65					70				75					

<210> 5297

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5297

Met	Phe	Gly	Leu	Tyr	Leu	Val	Leu	Asp	Pro	Glu	Leu	Pro	Phe	Ser	Lys
1					5				10					15	
Tyr	Leu	Asn	Asp	Tyr	Tyr	Tyr	Phe	Ile	Ser	Leu	Phe	Tyr	Thr	His	Thr
			20					25					30		
Arg	Thr	His	Thr	His	Arg	Glu	Met	Leu	Phe	Met	Arg	Phe	Cys	Ile	Phe
		35					40					45			
His	Ile	Leu	His	Ile	Leu	Tyr	Met	Ile	Asp	Glu					
	50					55									

<210> 5298

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

4728

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5298

Gln	Gly	Phe	Glu	Arg	Gln	Thr	Thr	Ala	Ala	Val	Gly	Val	Leu	Lys	Ala
1				5					10					15	
Val	His	Cys	Gly	Glu	Trp	Pro	Asp	Gln	Pro	Arg	Leu	Thr	Lys	Asp	Val
			20					25					30		
Ile	Cys	Phe	His	Ala	Glu	Asp	Phe	Leu	Glu	Val	Val	Gln	Arg	Met	Gln
		35					40					45			
Leu	Asp	Leu	His	Glu	Pro	Pro	Leu	Ser	Gln	Cys	Val	Gln	Trp	Val	Asp
	50					55					60				
Asp	Ala	Lys	Leu	Asn	Gln	Leu	Arg	Arg	Glu	Gly	Ile	Arg	Tyr	Ala	Arg
65					70					75					80
Ile	Gln	Leu	Tyr	Asp	Asn	Asp	Ile	Tyr	Phe	Ile	Pro	Arg	Asn	Val	Val
				85					90					95	
His	Gln	Phe	Lys	Thr	Val	Ser	Ala	Val	Cys	Xaa	Leu	Ala	Trp	Xaa	Ile
			100					105					110		
Arg	Leu	Lys	Leu	Tyr	His	Ser	Glu	Glu	Asp	Xaa	Ser	Gln	Asn	Thr	Ala
		115					120					125			
Thr	His	Glu	Thr	Gly	Thr	Ser	Ser	Asp	Ser	Thr	Ser	Ser	Val	Leu	Gly
	130					135					140				
Pro	His	Thr	Asp	Asn	Met	Ile	Cys	Ala	Val	Ser	Lys	Pro	Pro	Trp	Ile
145					150					155					160
Leu	Phe	Phe	Gln	Ile	Asn	Phe	Ile	Leu	Asn	Met	Asn	Tyr	Ser	Arg	Leu
			165					170						175	
Asn	Met	Asn	Leu	Leu	His	Leu									
			180												

<210> 5299

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

4729

<400> 5299

Ile Ser His Phe Trp Glu Gln Thr Pro Ile Lys Val Pro Gly Asp Tyr
1 5 10 15
Leu Gln Trp Xaa Ala Glu Gln Lys Ile Ser Ala Val Leu Ile Ile Val
20 25 30
Val Thr Trp Val Thr Pro Pro Asn Thr Leu Cys Glu Leu Ser Glu Ile
35 40 45
Phe Gly Asn Phe Leu Met Tyr Ile Leu Glu Ile Leu Asn Val Gln Ile
50 55 60
Trp Ser Ser Ile
65

<210> 5300

<211> 93

<212> PRT

<213> Homo sapiens

<400> 5300

Trp Gln Ser Val His Arg Ser Trp Leu Leu Ser Leu Leu Asn Leu Cys
1 5 10 15
Lys Arg Ser Leu Ser Asp Glu Gly Arg Ile Met Val Leu Leu Ala Leu
20 25 30
Ala Phe Pro Phe Cys Asp Leu Lys Ala Ser Ser Leu Arg Pro His Ser
35 40 45
Met Ala Pro Val Pro Tyr Ser His Ser Cys Leu Leu Lys Leu Pro Thr
50 55 60
Leu Leu Asn Cys Phe Trp Gly Glu Glu His Phe Phe Leu Lys Gln Asn
65 70 75 80
Arg Tyr Met Lys Gln Tyr Thr Gly Ile Asn Thr Asn Ile
85 90

<210> 5301

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4730

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5301

Phe	Ser	Pro	Lys	Ala	Val	Leu	Leu	Arg	Leu	Cys	Phe	Thr	Ser	Ile	Tyr
1				5					10					15	

Lys	Leu	Tyr	Val	Lys	Cys	Cys	His	Lys	Glu	Val	Ser	Glu	Ala	Val	Gly
			20					25					30		

His	Thr	Gln	Gly	Arg	Ala	Glu	Lys	Tyr	Leu	Val	Val	Cys	Xaa	Xaa	Xaa
		35					40					45			

Lys	Pro	Trp	Met	Ala	Ala	Ala	Thr	Xaa	Pro	Ala	Tyr	Pro	Phe	Thr	Ala
	50					55					60				

Xaa	Val	Tyr	Ser	Leu	Arg	Xaa	Leu	Thr	Thr	Arg
65					70					75

<210> 5302

<211> 82

<212> PRT

<213> Homo sapiens

4731

<400> 5302

Glu Leu Pro Ser Lys Arg Gln Ala Phe Val Ile Ser Met Glu Phe Glu
 1 5 10 15

Gly Ser Trp Thr Ile Cys Lys Asp Ile Leu Thr Cys Ser Leu Arg Ser
 20 25 30

Leu Ser Ser Ser Lys Arg Met Ala Arg Val Cys Gly Ile Ile Leu Ser
 35 40 45

Thr Tyr Cys Cys Phe Phe Val Val Leu Leu Met Gln Val Ile Ile Tyr
 50 55 60

Phe Leu Gly Val Ile Trp Arg Lys Ser Met Arg Gln Ala Cys Phe Ser
 65 70 75 80

Pro Val

<210> 5303

<211> 272

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5303

Asp Cys Val Thr Glu Leu Ser Val His His Arg Asn Asn Arg Gln Thr
 1 5 10 15

Met Glu Asp Leu Ile Ser Leu Trp Gln Tyr Asp His Leu Thr Ala Thr
 20 25 30

Tyr Leu Leu Leu Leu Ala Lys Lys Ala Arg Gly Lys Pro Val Arg Leu
 35 40 45

Arg Leu Ser Ser Phe Ser Cys Gly Gln Ala Ser Ala Thr Pro Phe Thr
 50 55 60

Asp Ile Lys Ser Asn Asn Trp Ser Leu Glu Asp Val Thr Ala Ser Asp
 65 70 75 80

Lys Asn Tyr Val Ala Gly Leu Ile Asp Tyr Asp Trp Cys Glu Asp Asp
 85 90 95

Leu Ser Thr Gly Ala Ala Thr Pro Arg Thr Ser Gln Phe Thr Lys Tyr

4732

100	105	110
Trp Thr Glu Ser Asn Gly Val Glu Ser Lys Ser Leu Thr Pro Ala Leu		
115	120	125
Cys Arg Thr Pro Ala Asn Lys Leu Lys Asn Lys Glu Asn Val Tyr Thr		
130	135	140
Pro Lys Ser Ala Val Lys Asn Glu Glu Tyr Phe Met Phe Pro Glu Pro		
145	150	155
Lys Thr Pro Val Asn Lys Asn Gln His Lys Arg Glu Ile Leu Thr Thr		
165	170	175
Pro Asn Arg Tyr Thr Thr Pro Ser Lys Ala Arg Asn Gln Cys Leu Lys		
180	185	190
Glu Thr Pro Ile Lys Ile Pro Val Asn Ser Thr Gly Thr Asp Lys Leu		
195	200	205
Met Thr Gly Val Ile Ser Pro Glu Arg Arg Cys Xaa Gln Trp Asn Trp		
210	215	220
Ile Ser Thr Lys His Ile Trp Arg Arg Leu Gln Lys Glu Arg Glu Pro		
225	230	235
Lys Cys Leu Gly Ala Leu Lys Gly Gly Trp Ile Arg Leu Ser Leu Cys		
245	250	255
Ser Pro Gly Ala Lys Gly Arg Val Leu Pro Glu Thr Gly Pro Glu Asp		
260	265	270

<210> 5304

<211> 35

<212> PRT

<213> Homo sapiens

<400> 5304

Phe Leu Gly Ala Pro Ser Ile Cys Ala Gly Asp Glu Glu Gly Thr Glu
1 5 10 15

Ile Asp Thr Leu Gln Phe Arg Leu Gln Val Arg Cys Thr Arg Glu Pro
20 25 30

Pro Cys Cys
35

4733

<210> 5305

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5305

Asp	Phe	Leu	Lys	Gly	Ser	Lys	Ala	Phe	Ala	Cys	Tyr	Leu	Cys	Phe	Phe
1				5					10					15	

Ser	Pro	Lys	Pro	Lys	Gln	Lys	Ile	Met	Pro	Leu	Cys	Gln	Thr	Phe	Leu
			20					25					30		

Leu	Gly	Thr	Ser	Thr	Xaa	Ser	Gln	Leu	Xaa	Lys	Tyr	Asn	Val	Tyr	Ile
		35					40					45			

Ala	Gln	Phe	Tyr	Asn	Leu	Ser	Met	Ala	Gln	Ile	Leu	Glu	Thr	Tyr	Lys
	50					55					60				

Leu	Asp	Asp	His	Arg	Asp	Ile	Val	Val	Asn	Ile	Trp	Ala	Trp	Asn	Gln
65					70					75					80

Arg	Thr	Leu	Gly	Ser	Asn	Leu	Ser	Phe	Lys	Ser	Lys	Lys	Leu	Asn	Ser
				85					90					95	

Leu Ala Glu

<210> 5306

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

4734

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5306

Arg	Phe	Asn	Phe	Pro	Ala	Ser	Pro	Glu	Ala	Arg	Tyr	Gly	His	Asn	Thr
1				5				10					15		

Lys	Phe	Cys	Pro	Arg	Arg	Leu	Ser	Lys	Ile	Val	Trp	Asp	Phe	Gln	Glu
			20					25					30		

Met	Phe	Leu	Lys	Ser	Xaa	Ala	Gly	Leu	Ser	Ser	Cys	Leu	Leu	Pro	Leu
		35					40					45			

Cys	Trp	Leu	Glu	Xaa	Lys	Asp	His	Gly	Arg	Arg	Pro	Ser	Ser	His	Pro
	50					55					60				

Gly	Arg
65	

<210> 5307

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5307

Val	Leu	Tyr	His	Cys	Ala	Ser	Arg	Tyr	Arg	Arg	Arg	Ala	Arg	Gln	Thr
1				5				10					15		

Cys	Xaa	Pro	Ser	Tyr	Thr	Arg	Ser	Ala	Asp	Leu	Pro	Ser	Arg	Thr	Pro
			20					25					30		

Pro	Val	Glu	Asp	Leu	Leu	Glu	Leu	Ser	Arg	Ala	Phe	Trp	Val	Gly	Ala
		35					40					45			

Asp	Gly	Gly	Gly	Arg	Val	Arg	Val	Leu	Gly	Gly	Thr	Glu	Ala	His	Glu
	50					55					60				

Asp	Gly	Ile	Pro	Pro	Glu	Ser	Met	Asp	His	Tyr	Ala	Asp	Gly	His	Arg
65					70					75					80

Pro	Gln	His	Cys	His	Leu	Gly	Tyr	Arg	Cys	His	Gly	Arg	Pro	Gln	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4735

[illegible]

```
<210> 5308
<211> 77
<212> PRT
<213> Homo sapiens
```

```

<400> 5308
Met Lys Ile Phe Lys Leu Glu Leu Glu Glu Gly Val Val Glu Glu Gln
  1                      5                      10                      15
Gly Val Leu Leu His Pro Glu Val Val Gly Leu Leu Leu Pro Ala Val
          20                      25                      30
Glu Pro Val Ile His Arg Glu Glu Val Leu Asp Gln Gln Glu Ala Phe
          35                      40                      45
Glu Val Arg Glu Glu Val Pro Asn Asn Lys Glu Ala Ala Gly Arg Glu
          50                      55                      60
Lys Gly Ser Arg Pro Val Leu Thr Cys Tyr Asn Glu Asp
          65                      70                      75

```

```
<210> 5309
<211> 704
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<220>
<221> SITE

4736

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5309

Xaa	Gly	Xaa	Lys	Gly	Arg	Glu	Gly	Lys	Gly	Gly	Ser	Arg	Gly	Gly	Ala
1				5					10					15	
Arg	Ala	His	Arg	Glu	Arg	Ala	Arg	Arg	Arg	Val	Glu	Leu	Asp	Arg	Val
			20					25					30		
Cys	Cys	Gln	Arg	Arg	Glu	Leu	Arg	Pro	Pro	Phe	Tyr	Asn	Ser	Ser	Thr
		35						40				45			
Arg	Ala	Gly	His	Arg	Glu	Gln	Arg	Ala	Arg	Val	Ser	Arg	Asn	Pro	Ile
	50					55					60				
Pro	Ser	Asp	Arg	Ile	Ser	Pro	Pro	Gln	Pro	Asn	Gly	Glu	Ile	Ser	Gly
65					70					75					80
Asn	Met	Ala	Thr	Glu	His	Val	Asn	Gly	Asn	Gly	Thr	Glu	Glu	Pro	Met
				85					90					95	
Asp	Thr	Thr	Ser	Ala	Val	Ile	His	Ser	Glu	Asn	Phe	Gln	Thr	Leu	Leu
			100						105				110		
Asp	Ala	Gly	Leu	Pro	Gln	Lys	Val	Ala	Glu	Lys	Leu	Asp	Glu	Ile	Tyr
		115					120					125			
Val	Ala	Gly	Leu	Val	Ala	His	Ser	Asp	Leu	Asp	Glu	Arg	Ala	Ile	Glu
	130					135					140				
Ala	Leu	Lys	Glu	Phe	Asn	Glu	Asp	Gly	Ala	Leu	Ala	Val	Leu	Gln	Gln
145					150					155					160
Phe	Lys	Asp	Ser	Asp	Leu	Ser	His	Val	Gln	Asn	Lys	Ser	Ala	Phe	Leu
				165					170					175	
Cys	Gly	Val	Met	Lys	Thr	Tyr	Arg	Gln	Arg	Glu	Lys	Gln	Gly	Thr	Lys
			180					185					190		
Val	Ala	Asp	Ser	Ser	Lys	Gly	Pro	Asp	Glu	Ala	Lys	Ile	Lys	Ala	Leu
		195					200					205			
Leu	Glu	Arg	Thr	Gly	Tyr	Thr	Leu	Asp	Val	Thr	Thr	Gly	Gln	Arg	Lys
	210					215						220			
Tyr	Gly	Gly	Pro	Pro	Pro	Asp	Ser	Val	Tyr	Ser	Gly	Gln	Gln	Pro	Ser
225					230					235					240
Val	Gly	Thr	Glu	Ile	Phe	Val	Gly	Lys	Ile	Pro	Arg	Asp	Leu	Phe	Glu
				245					250					255	

4737

Asp	Glu	Leu	Val	Pro	Leu	Phe	Glu	Lys	Ala	Gly	Pro	Ile	Trp	Asp	Leu	260	265	270
Arg	Leu	Met	Met	Asp	Pro	Leu	Thr	Gly	Leu	Asn	Arg	Gly	Tyr	Ala	Phe	275	280	285
Val	Thr	Phe	Cys	Thr	Lys	Glu	Ala	Ala	Gln	Glu	Ala	Val	Lys	Leu	Tyr	290	295	300
Asn	Asn	His	Glu	Ile	Arg	Ser	Gly	Lys	His	Ile	Gly	Val	Cys	Ile	Ser	305	310	315
Val	Ala	Asn	Asn	Arg	Leu	Phe	Val	Gly	Ser	Ile	Pro	Lys	Ser	Lys	Thr	325	330	335
Lys	Glu	Gln	Ile	Leu	Glu	Glu	Phe	Ser	Lys	Val	Thr	Glu	Gly	Leu	Thr	340	345	350
Asp	Val	Ile	Leu	Tyr	His	Gln	Pro	Asp	Asp	Lys	Lys	Lys	Asn	Arg	Gly	355	360	365
Phe	Cys	Phe	Leu	Glu	Tyr	Glu	Asp	His	Lys	Thr	Ala	Ala	Gln	Ala	Arg	370	375	380
Arg	Arg	Leu	Met	Ser	Gly	Lys	Val	Lys	Val	Trp	Gly	Asn	Val	Gly	Thr	385	390	395
Val	Glu	Trp	Ala	Asp	Pro	Ile	Glu	Asp	Pro	Asp	Pro	Glu	Val	Met	Ala	405	410	415
Lys	Val	Lys	Val	Leu	Phe	Val	Arg	Asn	Leu	Ala	Asn	Thr	Val	Thr	Glu	420	425	430
Glu	Ile	Leu	Glu	Lys	Ala	Phe	Ser	Gln	Phe	Gly	Lys	Leu	Glu	Arg	Val	435	440	445
Lys	Lys	Leu	Lys	Asp	Tyr	Ala	Phe	Ile	His	Phe	Asp	Glu	Arg	Asp	Gly	450	455	460
Ala	Val	Lys	Ala	Met	Glu	Glu	Met	Asn	Gly	Lys	Asp	Leu	Glu	Gly	Glu	465	470	475
Asn	Ile	Glu	Ile	Val	Phe	Ala	Lys	Pro	Pro	Asp	Gln	Lys	Arg	Lys	Glu	485	490	495
Arg	Lys	Ala	Gln	Arg	Gln	Ala	Ala	Lys	Asn	Gln	Met	Tyr	Asp	Asp	Tyr	500	505	510
Tyr	Tyr	Tyr	Gly	Pro	Pro	His	Met	Pro	Pro	Pro	Thr	Arg	Gly	Arg	Gly	515	520	525

4738

Arg	Gly	Gly	Arg	Gly	Gly	Tyr	Gly	Tyr	Pro	Pro	Asp	Tyr	Tyr	Gly	Tyr	530	535	540
Glu	Asp	Tyr	Tyr	Asp	Tyr	Tyr	Gly	Tyr	Asp	Tyr	His	Asn	Tyr	Arg	Gly	545	550	555
Gly	Tyr	Glu	Asp	Pro	Tyr	Tyr	Gly	Tyr	Glu	Asp	Phe	Gln	Val	Gly	Ala	565	570	575
Arg	Gly	Arg	Gly	Gly	Arg	Gly	Ala	Arg	Gly	Ala	Ala	Pro	Ser	Arg	Gly	580	585	590
Arg	Gly	Ala	Ala	Pro	Pro	Arg	Gly	Arg	Ala	Gly	Tyr	Ser	Gln	Arg	Gly	595	600	605
Gly	Pro	Gly	Ser	Ala	Arg	Gly	Val	Arg	Gly	Ala	Arg	Gly	Gly	Ala	Gln	610	615	620
Gln	Gln	Arg	Gly	Arg	Gly	Val	Arg	Gly	Ala	Arg	Gly	Gly	Arg	Gly	Gly	625	630	635
Asn	Val	Gly	Gly	Lys	Arg	Lys	Ala	Asp	Gly	Tyr	Asn	Gln	Pro	Asp	Ser	645	650	655
Lys	Arg	Arg	Gln	Thr	Asn	Asn	Gln	Asn	Trp	Gly	Ser	Gln	Pro	Ile	Ala	660	665	670
Gln	Gln	Pro	Leu	Gln	Gly	Gly	Asp	His	Ser	Gly	Asn	Tyr	Gly	Tyr	Lys	675	680	685
Ser	Glu	Asn	Gln	Glu	Phe	Tyr	Gln	Asp	Thr	Phe	Gly	Gln	Gln	Trp	Lys	690	695	700

<210> 5310

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4739

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5310

Asp	Tyr	Ala	Leu	Ser	Asn	Thr	Thr	Xaa	Tyr	Arg	Glu	Lys	Leu	Val	Arg
1				5					10					15	

Leu	Gln	Val	Pro	Val	Arg	Xaa	Phe	Pro	Gly	Arg	Pro	Thr	Arg	Pro	Trp
			20					25					30		

Glu	Thr	Glu	Gln	Asp	Ser	Val	Ser	Lys	Lys	Asn	Lys	Asn	Lys	Asn	Lys
		35					40					45			

Lys	Thr	Glu	Gly	Gln	Ala	Gln	Val	Lys	Tyr	Pro	Ile	Phe	Ile	Leu	Ser
	50					55					60				

Arg	Gly	Ile	Lys	Lys
65				

<210> 5311

<211> 116

<212> PRT

<213> Homo sapiens

<400> 5311

Cys	Ser	Asn	Cys	Pro	Lys	Leu	Trp	Pro	Lys	Lys	Ala	Pro	Ser	Asn	Trp
1				5					10					15	

Leu	Leu	Cys	Pro	Phe	Asp	Met	Ala	His	His	Ser	Leu	Asn	Thr	Phe	Tyr
			20					25					30		

Ile	Trp	His	Asn	Asn	Val	Leu	His	Thr	His	Leu	Val	Phe	Phe	Leu	Pro
		35					40					45			

His	Leu	Leu	Asn	Gln	Pro	Phe	Ser	Arg	Gly	Ser	Phe	Leu	Ile	Trp	Leu
	50					55					60				

Leu	Leu	Cys	Trp	Asn	Ser	Trp	Tyr	His	Leu	Arg	Thr	Leu	Arg	Arg	Gln
65					70					75					80

Ala	Asn	Gln	Ala	Asn	Lys	Leu	Ser	Met	Met	Leu	Leu	Arg	Val	Lys	Gln
				85					90					95	

Ser	Pro	Gly	Thr	Lys	Leu	Cys	His	Gly	Asp	Ser	Glu	Leu	Thr	Ser	Gly
			100					105					110		

Leu	Leu	Ala	Thr
			115

4740

<210> 5312

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5312

Val	Thr	Ile	Ile	Ile	Ser	Ala	Ser	Pro	Thr	Gln	Val	Thr	Leu	Leu	Gly
1				5					10					15	

Ser	Pro	Val	Cys	Pro	His	Leu	Glu	Val	Thr	Ala	Xaa	Pro	Trp	Arg	Trp
		20						25					30		

Asp	Ser	Ile	Leu	Ser	Pro	Gly	Cys	Leu	Pro	Pro	Val	Arg	Arg	Pro	Val
		35					40					45			

Ser	Trp	Cys	Val	Thr	Ser	Gly	Arg	Cys	Gln	Ala	Cys	Phe	Pro	Pro	Ser
	50					55					60				

Phe	Pro	Pro	Gln	Arg	Ala	Arg	Thr	Asn	His	Gln	Cys	His	His	Thr	Ser
65					70					75					80

Xaa	Trp	Pro	Glu	Asn	Phe	Met	Asp	Xaa	Phe	Thr	Cys	Ala	Ile	Val	Asn
				85						90				95	

Leu	Arg	Arg	Pro
			100

<210> 5313

<211> 63

<212> PRT

<213> Homo sapiens

4741

<400> 5313

```

Val Pro Gly Glu Ala Glu Leu Glu Arg Ala Val Glu Ala Phe Pro Leu
 1              5              10              15

Leu Val Glu Ser Tyr Ala Pro His Ser Gly Ser Glu Leu Gln Leu Leu
          20              25              30

Ser Arg Thr Thr Thr Glu Ser Gly Ile Arg Val Lys Asn Thr Ser Pro
          35              40              45

Thr Pro Pro Leu Leu His Pro Arg Arg Phe His Val Phe Asn Leu
          50              55              60

```

<210> 5314

<211> 269

<212> PRT

<213> Homo sapiens

<400> 5314

```

Asp Ser Gly Ser Cys Gly Pro Asp Pro Lys Cys Gly Asp Leu Arg Arg
 1              5              10              15

Ile Lys Gly Leu Cys Lys Phe Ala Asn Met Phe Thr Leu Ser Gln Thr
          20              25              30

Ser Arg Ala Trp Phe Ile Asp Arg Ala Arg Gln Ala Arg Glu Glu Arg
          35              40              45

Leu Val Gln Lys Glu Arg Glu Arg Ala Ala Val Val Ile Gln Ala His
          50              55              60

Val Arg Ser Phe Leu Cys Arg Ser Arg Leu Gln Arg Asp Ile Arg Arg
          65              70              75              80

Glu Ile Asp Asp Phe Phe Lys Ala Asp Asp Pro Glu Ser Thr Lys Arg
          85              90              95

Ser Ala Leu Cys Ile Phe Lys Ile Ala Arg Lys Leu Leu Phe Leu Phe
          100              105              110

Arg Ile Lys Glu Asp Asn Glu Arg Phe Glu Lys Leu Cys Arg Ser Ile
          115              120              125

Leu Ser Ser Met Asp Ala Glu Asn Glu Pro Lys Val Trp Tyr Val Ser
          130              135              140

Leu Ala Cys Ser Lys Asp Leu Thr Leu Leu Trp Ile Gln Gln Ile Lys
          145              150              155              160

```

4742

Asn	Ile	Leu	Trp	Tyr	Cys	Cys	Asp	Phe	Leu	Lys	Gln	Leu	Lys	Pro	Glu
				165				170				175			
Ile	Leu	Gln	Asp	Ser	Arg	Leu	Ile	Thr	Leu	Tyr	Leu	Thr	Met	Leu	Val
				180				185				190			
Thr	Phe	Thr	Asp	Thr	Ser	Thr	Trp	Lys	Ile	Leu	Arg	Gly	Lys	Gly	Glu
				195				200				205			
Ser	Leu	Arg	Pro	Ala	Met	Asn	His	Ile	Cys	Ala	Asn	Ile	Met	Gly	His
				210				215				220			
Leu	Asn	Gln	His	Gly	Phe	Tyr	Ser	Val	Leu	Gln	Cys	Cys	Asp	Gly	Leu
225				230				235				240			
Phe	Pro	Asp	Leu	Val	Ser	Tyr	Ala	Pro	His	Asn	Asn	Pro	Val	Arg	Trp
				245				250				255			
Ser	Val	Gly	Arg	Ser	Trp	Tyr	Asp	Trp	Gln	Leu	Ser	Arg			
				260				265							

<210> 5315

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5315

Gly	Gln	Ala	Arg	Val	Leu	Pro	Leu	Met	Gln	Ile	Pro	Thr	Arg	Glu	Met
1				5					10					15	
Ser	Arg	Gly	Arg	Leu	Leu	Ser	Glu	Xaa	Leu	Gln	Pro	Lys	Gly	Cys	Ser
			20					25					30		
Ile	Ala	Ile	Pro	Phe	Pro	Trp	Ser	Cys	Gln	Leu	Phe	Ser	Gly	Gln	Gly
		35					40					45			
Pro	Trp	Gly	Arg	Trp	Ser	Lys	Pro	Ser	Pro	Gln	Ala	Gly	Gly	Leu	Glu
	50					55					60				

4743

Ser Thr Arg Lys Gly Ser Thr Trp Phe Tyr Glu Gly Ile Leu Gly Gly
 65 70 75 80

Ala Thr Pro His Leu Pro Pro Thr Tyr Thr Phe Cys Cys Xaa Lys Cys
 85 90 95

Leu Ile Pro His Asp Val Ser Leu Ser Phe Gln Gln Lys Lys Val Lys
 100 105 110

Leu Trp Val Val Glu Pro
 115

<210> 5316

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5316

Ala Glu Arg Ser Leu Lys Ile Leu Pro Leu Leu Lys Lys Leu Leu Lys
 1 5 10 15

Ser Asn Asp His Glu Cys Met Leu Gly His Leu Cys Met Tyr Ile Gln
 20 25 30

Ile Asp Arg Met Asp Phe Xaa Lys Asn Gly Ile Thr Ile Val Leu Gln
 35 40 45

Trp Xaa Lys Lys Tyr Gly Ile Leu Pro His Ser Leu Asn Leu Gly Gly
 50 55 60

Ile Gln Lys Ala Leu Leu Lys Pro Ser Asn Lys Leu Asp Gln Leu Ser
 65 70 75 80

Leu Asp Leu

<210> 5317

4744

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5317

Leu	Leu	Arg	Arg	Gly	Phe	Ile	Xaa	Gly	Phe	Tyr	Asn	Ala	Asn	Val	Val
1				5				10						15	

Xaa	Leu	Arg	Xaa	Lys	Asn	Trp	Gln	Leu	Glu	Ser	Leu	Ser	Leu	Ile	Ser
			20				25						30		

Lys	Gly	Asn	Pro	Asp	Phe	Phe	Val	Asn	Tyr	Val	Arg	Gln	Val	Xaa	Tyr
		35					40					45			

Gly	Phe	Leu	Tyr	Glu	Leu	Gln	Phe	Thr	Val	His	Gln	Ile	Leu	Val	Ser
	50					55					60				

Glu	Glu	Leu	Ile	Tyr	Val	Lys	Cys	Leu	Lys	Ile	Tyr	Thr
65					70					75		

<210> 5318

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

4745

<400> 5318

Ser Pro Gly Gly Arg Ser Ser Leu Leu Leu Ser Pro Val Val Ser Arg
 1 5 10 15
 Thr Ser Cys Pro Asp Leu Pro Trp Ser Cys Leu Ser Asp Ser Leu His
 20 25 30
 Gln Gly His Pro Thr Ala Ser Lys Xaa Ala Phe Pro Trp Thr Asn Ala
 35 40 45
 Thr Ala Thr Phe Met Cys Glu Ala Lys Ile Thr Leu Gln Gln Ser Gln
 50 55 60
 Tyr
 65

<210> 5319

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5319

Pro Ala Gly Glu Ser Ser Pro Ala Pro Trp Leu Lys Gly Pro Gly Ala
 1 5 10 15
 His Leu Pro Glu Ala Arg Cys Gly Gly Gly Pro Arg Gly Arg Ser Gln
 20 25 30
 Ala Gln Ser Pro Gln Ser Ser Gly Pro Val Gly Gly Arg Gly Arg Ser
 35 40 45
 Gly Ser Lys Ala Arg Thr Pro Gln Leu Phe Arg Leu Gln Gln Gln Leu
 50 55 60
 Gln Arg Phe Gly His Gly Cys Glu Val Pro Arg Cys Trp Leu Gln Ala
 65 70 75 80
 Ala Arg Glu His Pro Gly Gln Gly Gln Glu Ala Gln Ser Glu Glu Glu

4746

				85					90					95		
Gly	Glu	Gly	Gln	Glu	Gly	Glu	Gly	Gln	Glu	Glu	Gly	Gly	Ser	Pro	Leu	
			100					105					110			
Lys	Gly	Pro	Gly	Gln	Gly	Ser	Leu	Asn	Leu	Pro	Leu	Cys	Leu	Gln	Lys	
		115					120					125				
Lys	Lys	Xaa	Xaa													
		130														

<210> 5320
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 5320																
Leu	Ser	Ser	Ile	Cys	Leu	Asn	Ile	Ser	Ser	Leu	Gly	Asp	Ser	Ser	Pro	
1				5					10					15		
Leu	Cys	Leu	Val	Ala	Asn	Cys	Asn	Ser	Pro	Cys	Gly	Pro	Thr	Glu	Tyr	
			20					25					30			
His	Ser	Thr	Ala	Phe	Leu	Asp	Ile	Tyr	Asp	Val	Leu	Thr	Ile	Gln	Val	
			35				40					45				

<210> 5321
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 5321																
Lys	Glu	Trp	His	Cys	Phe	Tyr	Ile	Phe	Ala	His	Leu	Phe	His	Ala	Arg	
1				5					10					15		
Leu	Asn	Arg	Asn	Ser	Tyr	Leu	Leu	Val	Arg	Val	Val	Cys	Cys	Asn	Ile	
			20					25					30			
Thr	Tyr	His	Val	Thr	Ser	Gly	Lys	Pro	His	Cys	Met	His	Val	Arg	Glu	
			35				40					45				
Gly	Glu	Ser	His	Val	Arg	Val	Val	Ile	Lys	Ile	Val	Leu	Thr	Leu		
			50				55				60					

4747

<210> 5322

<211> 87

<212> PRT

<213> Homo sapiens

<400> 5322

```

Met Arg Arg Arg Val Phe Phe Leu His Arg Cys Ser Ile Leu Val Phe
 1             5             10             15

Leu Phe Pro Cys Lys Cys Asn Gln Met Pro Phe Tyr Met Trp Thr Tyr
          20             25             30

Leu Tyr Trp Pro Asn Ile Phe Phe Leu Leu Ser Leu Phe Phe Phe Pro
          35             40             45

Phe Phe Leu Leu Pro Leu Phe Leu Tyr Ser Phe Leu Phe Leu Phe Phe
          50             55             60

Phe Phe Phe Ser Phe Phe Phe Gly Ser Cys Cys Tyr Pro Arg His Phe
          65             70             75             80

Thr Ser Pro Ser Leu Lys Gly
          85

```

<210> 5323

<211> 79

<212> PRT

<213> Homo sapiens

<400> 5323

```

Ile Gly Leu Lys Ala Asn Ser Gln Gly Ala Thr Asp Pro Phe His Asn
 1             5             10             15

Arg Met Leu Pro Val Asn Ser Leu Ser Ile Leu Leu Cys Pro Val Ser
          20             25             30

Lys Lys Lys Lys Lys Ser Arg Arg Val Ser Gln Ser Gly His Leu Ile
          35             40             45

Arg Asp Leu Ala Gln Glu Glu Glu Met Gly Arg Glu Ser Asp Gly Glu
          50             55             60

Gln His Ser Pro Trp Glu Pro Glu Val Gly Gly His Arg Ala Pro
          65             70             75

```

4748

<210> 5324

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5324

Glu	Pro	Ala	Ala	Thr	Ala	Ala	Glu	Thr	Xaa	Ser	Cys	Val	Leu	Cys	Gly
1				5					10					15	

Leu	Pro	Ala	Ala	Gly	Lys	Ser	Thr	Phe	Ala	Arg	Ala	Leu	Ala	His	Arg
			20					25					30		

Leu	Gln	Gln	Glu	Gln	Gly	Trp	Ala	Ile	Gly	Val	Val	Ala	Tyr	Asp	Asp
			35				40					45			

Val	Met	Pro	Asp	Ala	Phe	Leu	Ala	Gly	Ala	Arg	Ala	Arg	Pro	Ala	His
	50					55					60				

Ser	Gln	Trp	Lys	Leu	Leu	Arg	Gln	Glu	Leu	Leu	Lys	Tyr	Leu	Glu	Tyr
65					70					75				80	

Phe	Leu	Met	Ala	Val	Ile	Asn	Gly	Cys	Gln	Met	Ser	Val	Pro	Pro	Asn
				85					90					95	

Arg Thr

<210> 5325

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4749

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5325

Gly	Lys	Gly	Xaa	Xaa	Leu	Pro	Ile	Xaa	Xaa	Ser	Xaa	Thr	Phe	Met	Pro
1				5					10					15	

Asn	Gly	Cys	Cys	Lys	Thr	Cys	Thr	Pro	Arg	Asn	Glu	Thr	Arg	Val	Pro
			20					25					30		

Cys	Ser	Thr	Val	Pro	Val	Thr	Thr	Glu	Val	Ser	Tyr	Ala	Gly	Cys	Thr
		35					40					45			

Lys	Thr	Val	Leu	Met	Asn	His	Cys	Ser	Gly	Ser	Cys	Gly	Thr	Phe	Val
	50					55					60				

Met	Tyr	Ser	Ala	Lys	Ala	Gln	Ala	Leu	Asp	His	Ser	Cys	Ser	Cys	Cys
65					70					75					80

Lys	Glu	Glu	Lys	Thr	Ser	Gln	Arg	Glu	Val	Val	Leu	Ser	Cys	Pro	Asn
				85					90					95	

Gly	Gly	Ser	Leu	Thr	His	Thr	Tyr	Thr	His	Ile	Glu	Ser	Cys	Gln	Cys
			100					105					110		

Gln	Asp	Thr	Val	Cys	Gly	Leu	Pro	Thr	Gly	Thr	Ser	Arg	Arg	Ala	Arg
		115					120					125			

Arg	Ser	Pro	Arg	His	Leu	Gly	Ser	Val	Ser	Gly	Val	Gly	Thr	Ala	Pro
	130					135					140				

Ser	Leu	Pro	Ser	Thr	Ala	Leu	Pro	Pro	Pro	Asp	Pro	Leu	Ser	Leu	Leu
145					150					155					160

Lys	Leu	Gly	Phe	Leu	Xaa	Ser	Asp	Ile	Tyr	Cys	Leu	Ser	Phe	Cys	Ser
				165					170					175	

4750

Val Leu

<210> 5326

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5326

Arg	Gly	Gly	Gln	Thr	Xaa	Xaa	Pro	Ala	Gly	Ala	Arg	Xaa	Gly	Thr	Val
1				5					10					15	

Leu	Asn	Pro	Gly	Glu	Thr	Ala	Lys	Trp	Lys	Thr	Tyr	Arg	Val	Cys	Ala
			20					25					30		

Leu	Pro	Asp	Phe	Thr	Val	Leu	Leu	Gly	His	Phe	Thr	Tyr	Val	Pro	Ala
		35					40					45			

Val Ile Asn

50

<210> 5327

<211> 50

<212> PRT

<213> Homo sapiens

<400> 5327

Pro	Gln	Leu	Tyr	Lys	Leu	Phe	Phe	Lys	Thr	Lys	Tyr	Phe	Gln	Val	Tyr
1				5					10					15	

Leu	Leu	Thr	Lys	Asn	Ile	Ile	Met	Val	Lys	Thr	Phe	Leu	Phe	Asn	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4751

20 25 30
 Leu Val Ile Phe Leu Thr Ser Ile Phe Phe Asn Leu Ser Leu His Lys
 35 40 45
 Lys Asn
 50

 <210> 5328
 <211> 108
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (93)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5328
 Ser Val Tyr Leu Lys Arg Asn Leu Ile Phe Gln Gly Ser Asn Val Tyr
 1 5 10 15
 Val Phe Gln Val Val Leu Pro Thr Phe Ile Leu Glu Arg Arg Ser Leu
 20 25 30
 Leu Glu Met Tyr Ala Asp Phe Phe Xaa His Pro Asp Leu Phe Val Arg
 35 40 45
 Tyr Leu Thr Glu His Gly Ser Phe Gln Arg Leu Gln Met Leu Leu Ser
 50 55 60
 Ser Phe Leu Pro Phe Ile Leu Gln Asp Arg Trp Ile Pro Cys His Leu
 65 70 75 80
 Ser Asn Ile Ser Gly Tyr Ser Val Val Leu Asn Asn Xaa Phe Thr Leu
 85 90 95
 Val Ala Cys Leu Leu Lys Val Ile Trp Gly Arg Cys
 100 105

<210> 5329
 <211> 67

4752

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5329

Leu	Cys	Met	Ser	Leu	Gly	Glu	Cys	Val	Ser	Ser	Thr	Val	Ala	Pro	Arg
1				5					10					15	

Gly	Ser	Thr	His	Ser	Leu	Lys	Leu	Leu	Leu	Pro	His	Cys	Thr	Tyr	Ser
			20				25						30		

Leu	Arg	Leu	Asn	Trp	Ser	Gln	Thr	Asn	Trp	Asp	Pro	Ala	Gln	Ser	Ser
		35					40					45			

Ser	Ser	Gln	Asn	Glu	Val	Leu	Arg	Pro	Gln	Cys	Val	Arg	Thr	Cys	Leu
	50					55					60				

Ala	Val	Xaa
65		

<210> 5330

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5330

Ala	Gln	Phe	Leu	Gly	His	Ala	Pro	Val	Cys	Ser	Asp	Met	Leu	Leu	Tyr
1				5					10					15	

Val	Thr	Glu	Met	Ala	Met	Ser	Thr	Gly	Gly	Lys	Ile	Thr	Pro	Thr	Trp
			20					25					30		

Glu	Glu	Glu	Lys	Pro	Val	Arg	Gly	Ser	Thr	Ala	Gly	Ala	Ala	Leu	Ser
		35					40				45				

Thr	Glu	Xaa	Ser	Cys	Leu	Pro	Asp	Ser	Met	Ala	Phe	Val	Ser	Ile	Arg
	50					55					60				

Val
65

4753

<210> 5331

<211> 63

<212> PRT

<213> Homo sapiens

<400> 5331

Ile	Pro	Ala	Leu	Leu	Leu	Thr	Ser	Leu	Gly	Pro	Trp	Arg	Met	Leu	Ser
1				5					10					15	

Ile	Ser	Leu	Ser	Leu	Ser	Val	Leu	Leu	Cys	Lys	Met	Trp	Met	Ile	Pro
		20						25					30		

Asp	Ser	Gln	Ala	Phe	Cys	Gln	Asp	Tyr	Met	Gly	Phe	Leu	His	Ser	Ala
		35					40					45			

Met	Ser	Ser	Asp	Asn	Ile	Asn	Thr	Lys	Ser	Asn	Leu	Leu	Asn	Val
	50					55					60			

<210> 5332

<211> 404

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (223)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5332

Met	Pro	Asp	Gly	Ala	Thr	Leu	Ala	Ile	Gly	Ser	Ser	Arg	Gly	Lys	Ile
1					5				10					15	

Tyr	Gln	Tyr	Asp	Leu	Arg	Met	Leu	Lys	Ser	Pro	Val	Lys	Thr	Ile	Ser
			20					25					30		

Ala	His	Lys	Thr	Ser	Val	Gln	Cys	Ile	Xaa	Phe	Gln	Tyr	Ser	Thr	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4754

35	40	45
Leu Thr Lys Ser Ser Leu Asn Lys Gly Cys Ser Asn Lys Pro Thr Thr		
50	55	60
Val Asn Lys Arg Met Phe Asn Val Asn Ala Ala Ser Gly Gly Val Gln		
65	70	75
Asn Ser Gly Ile Val Arg Glu Ala Pro Ala Thr Ser Ile Ala Thr Val		
	85	90
Leu Pro Gln Pro Met Thr Ser Ala Met Gly Lys Gly Thr Val Ala Val		
	100	105
Gln Glu Lys Ala Gly Leu Pro Arg Ser Ile Asn Thr Asp Thr Leu Ser		
	115	120
Lys Glu Thr Asp Ser Gly Lys Asn Gln Asp Phe Ser Ser Phe Asp Asp		
	130	135
Thr Gly Lys Ser Ser Leu Xaa Asp Met Phe Ser Pro Ile Arg Asp Asp		
	145	150
Ala Val Val Asn Lys Gly Ser Asp Glu Ser Ile Gly Lys Gly Asp Gly		
	165	170
Phe Asp Phe Leu Pro Gln Leu Asn Ser Val Phe Pro Pro Arg Lys Asn		
	180	185
Pro Val Thr Ser Ser Thr Ser Val Leu His Ser Ser Pro Leu Asn Val		
	195	200
Phe Met Gly Ser Pro Gly Lys Glu Glu Asn Glu Asn Arg Asp Xaa Thr		
	210	215
Ala Glu Ser Lys Lys Ile Tyr Met Gly Lys Gln Glu Ser Lys Asp Ser		
	225	230
Phe Lys Gln Leu Ala Lys Leu Val Thr Ser Gly Ala Glu Ser Gly Asn		
	245	250
Leu Asn Thr Ser Pro Ser Ser Asn Gln Thr Arg Asn Ser Glu Lys Phe		
	260	265
Glu Lys Pro Glu Asn Glu Ile Glu Ala Gln Leu Ile Cys Glu Pro Pro		
	275	280
Ile Asn Gly Ser Ser Thr Pro Asn Pro Lys Ile Ala Ser Ser Val Thr		
	290	300
Ala Gly Val Ala Ser Ser Leu Ser Glu Lys Ile Ala Asp Ser Ile Gly		

305					310					315					320	
Asn	Asn	Arg	Gln	Asn	Ala	Pro	Leu	Thr	Ser	Ile	Gln	Ile	Arg	Phe	Ile	
				325					330					335		
Gln	Asn	Met	Ile	Gln	Glu	Thr	Leu	Asp	Asp	Phe	Arg	Glu	Ala	Cys	His	
				340					345					350		
Arg	Asp	Ile	Val	Asn	Leu	Gln	Val	Glu	Met	Ile	Lys	Gln	Phe	His	Met	
				355					360					365		
Gln	Leu	Asn	Glu	Met	His	Ser	Leu	Leu	Glu	Arg	Tyr	Ser	Val	Asn	Glu	
				370					375					380		
Gly	Leu	Val	Ala	Glu	Ile	Glu	Arg	Leu	Arg	Glu	Glu	Asn	Lys	Arg	Leu	
385					390					395					400	
Arg	Ala	His	Phe													

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Thr Pro
65

<210> 5334

4756

<211> 258

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5334

Pro	Arg	Val	Arg	Arg	Glu	Val	Gln	Ser	Leu	Lys	Glu	Gln	His	Gln	Lys
1				5					10					15	

Glu	Ile	Ser	Glu	Leu	Asn	Glu	Thr	Phe	Leu	Ser	Asp	Ser	Glu	Lys	Glu
			20					25					30		

Lys	Leu	Thr	Leu	Met	Phe	Glu	Ile	Gln	Gly	Leu	Lys	Glu	Gln	Cys	Glu
		35					40					45			

Asn	Leu	Gln	Gln	Glu	Lys	Gln	Glu	Ala	Ile	Leu	Asn	Tyr	Glu	Ser	Leu
	50					55					60				

Arg	Glu	Ile	Met	Glu	Ile	Leu	Gln	Thr	Glu	Leu	Gly	Glu	Ser	Ala	Gly
65					70					75					80

Lys	Ile	Ser	Gln	Glu	Phe	Glu	Ser	Met	Lys	Gln	Gln	Gln	Ala	Ser	Asp
				85					90					95	

Val	His	Glu	Leu	Gln	Gln	Lys	Leu	Arg	Thr	Ala	Phe	Thr	Glu	Lys	Asp
			100					105					110		

Ala	Leu	Leu	Glu	Thr	Val	Asn	Arg	Leu	Gln	Gly	Glu	Asn	Glu	Lys	Leu
		115					120					125			

Leu	Ser	Gln	Gln	Glu	Leu	Val	Pro	Glu	Leu	Glu	Asn	Thr	Ile	Lys	Asn
	130					135					140				

Leu	Gln	Glu	Lys	Asn	Gly	Val	Tyr	Leu	Leu	Ser	Leu	Ser	Gln	Arg	Asp
145					150					155					160

Thr	Met	Leu	Lys	Glu	Leu	Glu	Gly	Lys	Ile	Asn	Ser	Leu	Thr	Glu	Glu
				165					170					175	

Lys	Asp	Asp	Phe	Ile	Asn	Lys	Leu	Lys	Asn	Ser	His	Glu	Glu	Met	Asp
			180					185					190		

Asn	Phe	His	Lys	Lys	Cys	Glu	Arg	Glu	Glu	Arg	Leu	Ile	Leu	Glu	Leu
		195					200					205			

Gly	Lys	Lys	Val	Glu	Gln	Thr	Ile	Gln	Tyr	Asn	Ser	Glu	Leu	Glu	Gln
	210					215					220				

4757

Lys Val Asn Glu Leu Thr Gly Gly Leu Glu Glu Thr Leu Lys Glu Lys
 225 230 235 240

Asp Gln Asn Asp Gln Lys Leu Glu Lys Leu Xaa Gly Ser Asn Glu Ser
 245 250 255

Ser Leu

<210> 5335

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5335

Tyr Ala Ile Ile Met Gln Leu Asn Val Asp Glu Ser Gly Arg Gly Trp
 1 5 10 15

Ala Gln Met Val Pro His Asp Pro Gly Ile Asp Pro Glu Phe Pro Glu
 20 25 30

Glu Trp Val Asp Asn Thr Tyr Ser Asn Lys Asn Pro Phe Leu Leu Phe
 35 40 45

Ser Ile Lys Leu Leu Ser Lys Ile Ile Asp Arg Leu
 50 55 60

<210> 5336

<211> 124

<212> PRT

<213> Homo sapiens

<400> 5336

Leu Cys His Glu Lys Leu Ser Leu Leu Glu Asp Phe Lys Asp Phe Arg
 1 5 10 15

Asp Ser Cys Ser Ser Ser Glu Arg Thr Asp Gly Arg Tyr Ser Lys Tyr
 20 25 30

Arg Val Arg Arg Asn Ser Leu Gln His His Gln Asp Asp Thr Lys Tyr
 35 40 45

Arg Thr Lys Ser Phe Lys Gly Asp Arg Thr Phe Leu Glu Gly Tyr His
 50 55 60

Thr Arg Gly Leu Asp His Ser Ser Ser Trp Gln Asp His Ser Arg Phe

4758

65						70						75						80
Leu	Ser	Ser	Pro	Arg	Phe	Ser	Tyr	Val	Asn	Ser	Phe	Thr	Lys	Arg	Thr			
				85					90					95				
Val	Ala	Pro	Asp	Ser	Ala	Ser	Asn	Lys	Glu	Asp	Ala	Thr	Met	Asn	Gly			
				100					105					110				
Thr	Ser	Ser	Gln	Pro	Lys	Lys	Glu	Glu	Tyr	Gly	Ser							
				115					120									

<210> 5337

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

 $\langle 222 \rangle$ (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

 $\langle 222 \rangle$ (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5337

Met Ser Arg Thr Arg Pro Ala Arg Pro Met Gly Trp Gly Gln Gln Arg
1 5 10 15

His Ser Pro Leu Val Val Gln Arg Gln Leu Xaa Arg Glu Gly Ser Ser
20 25 30

Pro Glu Gly Ser Thr Arg Arg Thr Ile Glu Gly Gln Ser Pro Glu Pro
35 40 45

Val Phe Gly Asp Ala Asp Val Asp Val Ser Ala Val Gln Ala Lys Leu
50 55 60

Gly Ala Leu Glu Leu Asn Gln Arg Asp Ala Ala Ala Glu Thr Glu Leu
65 70 75 80

Arg	Val	His	Pro	Pro	Cys	Gln	Arg	His	Cys	Pro	Glu	Pro	Arg	Val	His
				85					90					95	

4759

Pro Lys Lys Thr Lys Pro Pro Ala Lys Leu Pro Lys Val Xaa Thr Gln
 100 105 110

Lys Pro Pro Ser Leu Ala Leu Phe Pro Xaa Ser Ser Pro Cys Gly Asn
 115 120 125

Leu Leu Leu Ala Arg Lys Phe Gly
 130 135

<210> 5338
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 5338
 Val Leu Asp Arg Glu Arg Pro Ser Phe Phe Phe Phe Phe Ser Val Gln
 1 5 10 15

Ala Gln Phe Cys His Gln Phe Asp Tyr Glu Lys Ser Phe Gly Leu Pro
 20 25 30

Gly Ser Phe Gly Ala Trp Lys Leu Gln Met Arg Asp Gly Gly Leu His
 35 40 45

Cys Phe Ala Ala Gly Glu Arg Glu Leu Ile Arg Ser Leu Pro Thr Glu
 50 55 60

Val Gly Val Met Pro Asp Ala Glu Arg Ser Gly Ser Pro Arg Ala Gln
 65 70 75 80

Ala Pro Cys Gly Arg Cys Pro Gln Arg Ala Ser Pro Pro Pro Arg Pro
 85 90 95

Gly Ser Tyr Leu Leu His Asp Leu Leu Pro Arg Arg Ala Ala Tyr Leu
 100 105 110

Leu Asp Gly Leu Leu Asp Val Leu
 115 120

<210> 5339
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

4760

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5339

Ala	Gly	Met	Met	Tyr	Leu	Xaa	Asn	His	Thr	Pro	Val	Leu	Ile	Ser	His
1				5					10					15	

Gln	Ile	Ser	Met	Phe	Thr	Phe	Ser	Val	Trp	Met	Ser	Gly	Arg	Thr	Leu
			20					25					30		

Lys	Asn	Trp	Gln	Ser	Cys	Pro	Thr	His	Ala	Glu	His	Leu
		35					40					45

<210> 5340

<211> 288

<212> PRT

<213> Homo sapiens

<400> 5340

Arg	Ser	Ala	Pro	Pro	Gly	Arg	Cys	Arg	Pro	Trp	Pro	Val	Pro	Ser	Pro
1				5					10					15	

Arg	Phe	Ser	Ala	Pro	Arg	Ala	Val	Pro	Ser	Gln	Ser	Pro	Ala	Pro	Arg
			20					25					30		

Tyr	Arg	Ala	Asp	Arg	Pro	Ser	Arg	Arg	Leu	Pro	Val	Pro	Gly	Thr	Pro
		35					40					45			

Ala	Arg	Pro	Leu	Ala	Arg	Ser	Pro	Pro	Ala	Ala	His	Val	Pro	Gly	Ala
	50					55					60				

Gly	Pro	Arg	Ala	Gly	Gly	Arg	Ala	Ala	Arg	Arg	Ser	Gln	Ala	Gly	Leu
65					70					75					80

Cys	Ser	Val	Pro	Met	Ala	Ala	Ala	Gly	Trp	Arg	Asp	Gly	Ser	Gly	Gln
				85					90					95	

Glu	Lys	Tyr	Arg	Leu	Val	Val	Val	Gly	Gly	Gly	Gly	Val	Gly	Lys	Ser
			100					105					110		

Ala	Leu	Thr	Ile	Gln	Phe	Ile	Gln	Ser	Tyr	Phe	Val	Thr	Asp	Tyr	Asp
		115					120					125			

Pro	Thr	Ile	Glu	Asp	Ser	Tyr	Thr	Lys	Gln	Cys	Val	Ile	Asp	Asp	Arg
	130					135					140				

Ala	Ala	Arg	Leu	Asp	Ile	Leu	Asp	Thr	Ala	Gly	Gln	Glu	Glu	Phe	Gly
145					150					155					160

4761

Ala Met Arg Glu Gln Tyr Met Arg Thr Gly Glu Gly Phe Leu Leu Val
165 170 175

Phe Ser Val Thr Asp Arg Gly Ser Phe Glu Glu Ile Tyr Lys Phe Gln
180 185 190

Arg Gln Ile Leu Arg Val Lys Asp Arg Asp Glu Phe Pro Met Ile Leu
195 200 205

Ile Gly Asn Lys Ala Asp Leu Asp His Gln Arg Gln Val Thr Gln Glu
210 215 220

Glu Gly Gln Gln Leu Ala Arg Gln Leu Lys Val Thr Tyr Met Glu Ala
225 230 235 240

Ser Ala Lys Ile Arg Met Asn Val Asp Gln Ala Phe His Glu Leu Val
245 250 255

Arg Val Ile Arg Lys Phe Gln Glu Gln Glu Cys Pro Pro Ser Pro Glu
260 265 270

Pro Thr Arg Lys Glu Lys Asp Lys Lys Gly Cys His Cys Val Ile Phe
275 280 285

<210> 5341

<211> 279

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5341

Ala Ala Ala Glu Arg Asp Val Pro Pro Pro Pro Pro Pro Pro Pro
1 5 10 15

Pro Ser Glu Pro Leu Leu Ala Leu Arg Gly Gly Ala Thr Asp Ala Cys
20 25 30

Leu Ala Arg Arg Thr Leu Arg Asp Pro Gly Ala Ala Gln Pro Ala Glu
35 40 45

Pro Arg Arg Ser Pro Ala Pro Gly Ala Pro Gly Ser Gln Cys Arg Pro
50 55 60

4762

Ala Gly Gly Pro Val Arg Glu Pro Arg Val Arg Glu Leu Arg Leu His
 65 70 75 80
 Pro Asp Ala Ala Val Ala Arg Xaa Gly Thr Gly His Tyr Leu Cys Asn
 85 90 95
 Ala Cys Gly Leu Tyr Ser Lys Met Asn Gly Leu Ser Arg Pro Leu Ile
 100 105 110
 Lys Pro Gln Lys Arg Val Pro Ser Ser Arg Arg Leu Gly Leu Ser Cys
 115 120 125
 Ala Asn Cys His Thr Thr Thr Thr Thr Leu Trp Arg Arg Asn Ala Glu
 130 135 140
 Gly Glu Pro Val Cys Asn Ala Cys Gly Leu Tyr Met Lys Leu His Gly
 145 150 155 160
 Val Pro Arg Pro Leu Ala Met Lys Lys Glu Gly Ile Gln Thr Arg Lys
 165 170 175
 Arg Lys Pro Lys Asn Ile Asn Lys Ser Lys Thr Cys Ser Gly Asn Ser
 180 185 190
 Asn Asn Ser Ile Pro Met Thr Pro Thr Ser Thr Ser Ser Asn Ser Asp
 195 200 205
 Asp Cys Ser Lys Asn Thr Ser Pro Thr Thr Gln Pro Thr Ala Ser Gly
 210 215 220
 Ala Gly Ala Pro Val Met Thr Gly Ala Gly Glu Ser Thr Asn Pro Glu
 225 230 235 240
 Asn Ser Glu Leu Lys Tyr Ser Gly Gln Asp Gly Leu Tyr Ile Gly Val
 245 250 255
 Ser Leu Ala Ser Pro Ala Glu Val Thr Ser Ser Val Arg Pro Asp Ser
 260 265 270
 Trp Cys Ala Leu Ala Leu Ala
 275

<210> 5342

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5342

4763

Glu Glu Leu Glu Ala Arg Gly Leu Arg Trp Leu Pro Trp Val Phe Pro
 1 5 10 15
 Ser Arg Leu Cys Tyr Cys Val Arg Pro Phe Ser His Cys Gly His Val
 20 25 30
 Phe Leu Glu Ser Ile Phe Gln Val Leu Tyr Ile Gln His Ser Pro Pro
 35 40 45
 Ser Phe Ser Leu Ile Pro Phe
 50 55

<210> 5343

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5343

Thr Glu Glu Ile Leu Arg Thr Arg Gly Ser Thr Arg Glu Phe Arg Thr
 1 5 10 15
 Gly Thr Cys Arg Arg Thr Ser Phe Pro Ile Val Ser Arg Ile Arg Ala
 20 25 30
 Trp Arg Asn His Gly His Ser Xaa Phe Leu Cys Glu Ile Gly Ile Arg
 35 40 45
 Ser Gln Phe His Thr Thr Tyr Glu Pro Glu Ala
 50 55

<210> 5344

<211> 103

<212> PRT

<213> Homo sapiens

<400> 5344

Ser Met His Lys Ala Gly Leu Leu Gly Leu Cys Ala Arg Ala Trp Asn
 1 5 10 15
 Ser Val Arg Met Ala Ser Ser Gly Met Thr Arg Arg Asp Pro Leu Ala
 20 25 30

4764

Asn Lys Val Ala Leu Val Thr Ala Ser Thr Asp Gly Ile Gly Phe Ala
 35 40 45
 Ile Ala Arg Arg Leu Ala Gln Asp Gly Ala His Val Val Val Ser Ser
 50 55 60
 Arg Lys Gln Gln Asn Val Asp Gln Ala Val Ala Thr Leu Gln Gly Glu
 65 70 75 80
 Gly Leu Ser Val Thr Gly Thr Cys Ala Met Trp Gly Arg Arg Arg Thr
 85 90 95
 Gly Ser Gly Trp Trp Pro Arg
 100

<210> 5345

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5345

Ser Leu Tyr Met Leu Thr Asn Ser Lys Gly Lys Glu Ile Asp His Lys
 1 5 10 15
 Leu His Val Asn Val Glu Gly Lys Leu Ile Asp His Lys Leu Lys Tyr
 20 25 30
 Asn Leu Ile Cys Tyr Ile Phe Leu Leu Ile Tyr Ile Pro Met Lys Xaa
 35 40 45
 Phe Leu Tyr
 50

<210> 5346

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

4765

<400> 5346

```

Cys Phe Ser Leu Pro Ser Leu Phe Thr Ala Val Lys Phe Ile Lys Cys
 1             5             10             15

Phe Ser Val Xaa Phe Cys Ser Leu Ser Phe Thr Gly Tyr Phe Phe Met
          20             25             30

Tyr Thr Phe Arg Ile Phe Cys Leu Leu Tyr Pro Val Val Gln Met Ile
          35             40             45

Ser Tyr Ile Leu Gln Met Pro Phe Gln Phe Leu Phe Ser Phe Ser Ile
          50             55             60

Lys Leu Pro Ser Cys Pro Asn Val Gln Phe Val Ser Val Cys Val Cys
 65             70             75             80

Val Cys Val Cys Val Asn Leu Ile Phe Lys Ser Ala Arg Leu Pro Ile
          85             90             95

```

<210> 5347

<211> 291

<212> PRT

<213> Homo sapiens

<400> 5347

```

Arg Pro Asp Ser Arg Val Asp Pro Arg Val Arg Glu Val Thr Asp Tyr
 1             5             10             15

Ala Ile Ala Arg Arg Ile Val Asp Leu His Ser Arg Ile Glu Glu Ser
          20             25             30

Ile Asp Arg Val Tyr Ser Leu Asp Asp Ile Arg Arg Tyr Leu Leu Phe
          35             40             45

Ala Arg Gln Phe Lys Pro Lys Ile Ser Lys Glu Ser Glu Asp Phe Ile
          50             55             60

Val Glu Gln Tyr Lys His Leu Arg Gln Arg Asp Gly Ser Gly Val Thr
 65             70             75             80

Lys Ser Ser Trp Arg Ile Thr Val Arg Gln Leu Glu Ser Met Ile Arg
          85             90             95

Leu Ser Glu Ala Met Ala Arg Met His Cys Cys Asp Glu Val Gln Pro
          100             105             110

```

4766

Lys	His	Val	Lys	Glu	Ala	Phe	Arg	Leu	Leu	Asn	Lys	Ser	Ile	Ile	Arg	
		115						120						125		
Val	Glu	Thr	Pro	Asp	Val	Asn	Leu	Asp	Gln	Glu	Glu	Glu	Ile	Gln	Met	
		130						135						140		
Glu	Val	Asp	Glu	Gly	Ala	Gly	Gly	Ile	Asn	Gly	His	Ala	Asp	Ser	Pro	
145					150						155			160		
Ala	Pro	Val	Asn	Gly	Ile	Asn	Gly	Tyr	Asn	Glu	Asp	Ile	Asn	Gln	Glu	
		165						170						175		
Ser	Ala	Pro	Lys	Ala	Ser	Leu	Arg	Leu	Gly	Phe	Ser	Glu	Tyr	Cys	Arg	
		180						185						190		
Ile	Ser	Asn	Leu	Ile	Val	Leu	His	Leu	Arg	Lys	Val	Glu	Glu	Glu	Glu	
		195						200						205		
Asp	Glu	Ser	Ala	Leu	Lys	Arg	Ser	Glu	Leu	Val	Asn	Trp	Tyr	Leu	Lys	
210					215						220					
Glu	Ile	Glu	Ser	Glu	Ile	Asp	Ser	Glu	Glu	Glu	Leu	Ile	Asn	Lys	Lys	
225					230						235			240		
Arg	Ile	Ile	Glu	Lys	Val	Ile	His	Arg	Leu	Thr	His	Tyr	Asp	His	Val	
		245						250						255		
Leu	Ile	Glu	Leu	Thr	Gln	Ala	Gly	Leu	Lys	Gly	Ser	Thr	Glu	Gly	Ser	
		260						265						270		
Glu	Ser	Tyr	Glu	Glu	Asp	Pro	Tyr	Leu	Val	Val	Asn	Pro	Asn	Tyr	Leu	
		275						280						285		
Leu	Glu	Asp														
290																

<210> 5348

<211> 33

<212> PRT

<213> Homo sapiens

<400> 5348

Thr Cys Ser Arg Ser Arg Ala Ala Ala Leu Leu Thr Val Leu Gly Val
1 5 10 15

Cys Val Gln Ser Glu Gln Gly Leu Cys Phe Trp Ile Val Lys Glu Asp
20 25 30

4767

Ala

<210> 5349

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5349

Thr Pro Ala Gly Xaa Arg Ser Gly Asn Ser Arg Val Glu Gly Pro Leu

1

5

10

15

Ser Cys Leu Tyr Ser Phe Ser Leu Leu Tyr Ser Phe Thr Arg Ser Pro

20

25

30

His Leu Thr Ser Glu Leu Leu Gly Pro Leu Asp Pro His Ile Ser Trp

35

40

45

Ala Ile Ser Leu Phe Cys

50

<210> 5350

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5350

4768

Xaa Arg Lys Thr Leu Asp Val Xaa Xaa Thr Ile Met Gly Thr Arg Ile
1 5 10 15
Glu Gly Phe Phe Pro Leu Lys Ala Phe Leu Pro Gly Gly Trp Ala Leu
20 25 30
Leu Gly His Ala Leu Gln Ser Ser Val Pro Gln Gln Glu Ser Gly Gly
35 40 45
His His Leu Pro Ala Ser Ser Thr Phe Ser Ala Ser Leu Phe Ser Met
50 55 60
Asn Pro Gly Arg Pro Ala Gly Thr Ser Lys Phe Pro Gly Leu Ser Ala
65 70 75 80

<210> 5351

<211> 53

<212> PRT

<213> Homo sapiens

<400> 5351

Gln Thr Leu Arg Thr Lys Met Asn Glu Asn Leu Phe Ala Ser Phe Ile
1 5 10 15
Ala Pro Thr Ile Leu Gly Leu Pro Ala Ala Val Leu Ile Ile Leu Phe
20 25 30
Pro Pro Leu Leu Ile Pro Thr Ser Lys Tyr Leu Ile Asn Asn Arg Leu
35 40 45
Ile Thr Thr Gln Gln
50

<210> 5352

<211> 185

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5352

4769

Arg Cys Pro Thr Arg Ser Pro Pro Pro Asp Thr Pro Gly Ser Arg Gly
 1 5 10 15
 Thr Thr Ala Met Cys Ser Leu Ala Ser Gly Ala Thr Gly Gly Arg Gly
 20 25 30
 Ala Val Glu Asn Glu Glu Asp Leu Pro Glu Leu Ser Asp Ser Gly Asp
 35 40 45
 Glu Ala Ala Trp Glu Asp Glu Asp Asp Ala Asp Leu Pro His Gly Lys
 50 55 60
 Gln Gln Thr Pro Cys Leu Phe Cys Asn Arg Leu Phe Thr Ser Ala Glu
 65 70 75 80
 Glu Thr Phe Ser His Cys Lys Ser Glu His Gln Phe Asn Ile Asp Ser
 85 90 95
 Met Val His Lys His Gly Leu Glu Phe Tyr Gly Tyr Ile Lys Leu Ile
 100 105 110
 Xaa Phe Ile Arg Leu Lys Asn Pro Thr Val Glu Tyr Met Asn Ser Ile
 115 120 125
 Tyr Asn Pro Val Pro Trp Glu Lys Glu Glu Tyr Leu Lys Pro Val Leu
 130 135 140
 Glu Asp Asp Leu Leu Leu Gln Phe Asp Val Glu Asp Leu Tyr Glu Pro
 145 150 155 160
 Val Ser Val Pro Phe Ser Tyr Pro Asn Gly Leu Ser Glu Asn Thr Ser
 165 170 175
 Val Val Glu Lys Leu Lys His Met Glu
 180 185

<210> 5353

<211> 76

<212> PRT

<213> Homo sapiens

<400> 5353

Tyr Ile Lys Ala Leu Leu Ser Ser Asp Tyr Ala Tyr Phe Ala Ser Arg
 1 5 10 15
 Glu Thr Glu Ala Trp Val Gly Gln Arg Gly Ala His Val Phe Thr Ala
 20 25 30
 Leu Ser Ala Pro Asp Phe Gly Ala Ile Ser Leu His Pro Cys Ala Pro

4770

35 40 45
 Val Lys Asn Leu Ala Ser Thr Phe Cys Ser Pro Asp Pro Pro Ser Leu
 50 55 60
 Thr Cys Gly Ser Cys His Thr Lys Met Gly Leu Pro
 65 70 75

<210> 5354
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 5354
 Gly Thr Gln Leu Ile Thr Arg Arg Ile Asn Trp Pro Lys Phe Leu Ile
 1 5 10 15
 Phe Gln Phe Val Ala Pro Ala Pro Arg Asp His Gln Lys Leu Phe Trp
 20 25 30
 Val Ser Leu Ser Leu Arg Arg Asp Pro Leu His Arg Pro Ser Leu Ile
 35 40 45
 Leu Ile Ser Pro Cys Pro Glu Ser Val Asn Val Pro Arg Lys
 50 55 60

<210> 5355
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 5355
 Gly His Val Asp Asn Leu Arg Tyr His Ser Ile Val His Asn Val His
 1 5 10 15
 His Tyr Ser Val Asp Cys Lys Gly Leu Leu Ser Ser Cys Lys Asn Tyr
 20 25 30
 Pro Ser Lys Ser Ile Phe Lys Val Leu Val Leu Leu Ile Tyr Lys Leu
 35 40 45
 Cys Ala Arg Ser Pro Lys Val Asn Ser Asn Ile Tyr Leu Lys Tyr Ser
 50 55 60
 Leu Ser Tyr Leu Ile Asn Leu Trp Tyr Ile Phe Leu Tyr Tyr Ala Cys
 65 70 75 80

4771

<210> 5356

<211> 116

<212> PRT

<213> Homo sapiens

<400> 5356

```

Leu Lys Met Lys Thr Pro Phe Phe Ile Phe Asn Leu Ala Glu Thr Ala
 1              5              10              15

His Met Pro Ser Lys Val Lys Ala Gln Leu Tyr Ala Gln Ala Tyr Asp
          20              25              30

Leu Tyr Lys Glu Ile Val Tyr Leu Gln Lys Glu His Pro Val Asn Trp
          35              40              45

His Lys Asn Tyr Ala Ile Ala Cys Glu Arg Met Leu Arg Leu Gln Ala
          50              55              60

Arg Asp Ala Asp Pro Glu Val Leu Leu Ser Glu Thr Ile Arg His Phe
          65              70              75              80

Arg Leu Tyr Ser Gln Lys Ala Pro Asn Asp Pro Gln Gln Ala Asp Ile
          85              90              95

Leu Gly Ala Leu Lys His Leu Arg Lys Glu Leu Gln Ser Leu Arg Asn
          100              105              110

Arg Lys Asn Val
          115

```

<210> 5357

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5357

```

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Glu Pro Ala Gly His
 1              5              10              15

```

4772

Ser Gln Lys Lys Gly Lys Ala Ile Asn Ile Gly Gln Leu Val Asp Val
 20 25 30
 Lys Val Leu Glu Lys Thr Lys Asp Gly Leu Glu Val Ala Val Leu Pro
 35 40 45
 His Asn Ile Arg Ala Phe Leu Pro Thr Ser His Leu Ser Asp His Val
 50 55 60
 Ala Asn Gly Pro Leu Leu His His Trp Leu Gln Ala Gly Asp Ile Leu
 65 70 75 80
 His Arg Val Leu Cys Leu Ser Gln Ser Glu Gly Arg Val Leu Leu Cys
 85 90 95
 Arg Lys Pro Ala Leu Val Ser Thr Val Glu Gly Gly Gln Xaa Pro Lys
 100 105 110
 Asn Phe Ser Glu Ile His Pro Gly Met Leu Leu Ile Gly Phe Val Lys
 115 120 125
 Ser Ile Lys Asp Tyr Gly Val Phe Ile Gln Phe Pro Ser Gly Leu Ser
 130 135 140
 Gly Leu Ala Pro Lys Ala Ile Met Ser Asp Lys Phe Val Thr Ser Thr
 145 150 155 160
 Ser Asp His Phe Val Glu Gly Gln Thr Val Ala Ala Lys Val Thr Asn
 165 170 175
 Val Asp Glu Glu Lys Gln Arg Met
 180

<210> 5358

<211> 77

<212> PRT

<213> Homo sapiens

<400> 5358

Asn Leu Arg Phe Asp Asp Ala Glu Ala Leu Asp Tyr Thr Phe Ala Tyr
 1 5 10 15
 Phe Asp Lys Val His Leu Ser Leu Phe Ile Ser Ser Val Phe Phe Cys
 20 25 30
 Tyr Gln Arg Gln Leu Ile Ser Phe Val Pro Gln Tyr Phe Phe Cys Lys
 35 40 45
 Tyr Leu Pro Lys Phe Phe Gln Ile Leu Cys Lys Met Gln Val Ile Val

```

      50      55      60
Glu Met Pro Val Tyr Ala Phe Met Leu Ala Ser Leu Asn
  65              70              75

<210> 5359
<211> 83
<212> PRT
<213> Homo sapiens

<400> 5359
Gln Ser Val Tyr Lys Arg Gly Leu Gln Lys Lys Met Arg Ala Cys Phe
  1              5              10              15
Thr Gln Gln Lys Ile Trp Pro Phe Leu Asn Asp Thr Arg Arg Val Ile
      20              25              30
Leu Ser His Thr Phe Pro Ser Phe Arg Trp Trp Thr Phe Val Glu Thr
      35              40              45
Gly Thr Gln Trp Ser Asn Arg Leu Cys Pro Pro Val Ala Asp Ser Pro
  50              55              60
Ala Gly Arg Trp Thr Arg Gly Pro Val Leu Thr Val Thr Arg Leu Ser
  65              70              75              80
Leu Leu Glu

```

```
<400> 5360
Phe Tyr Pro Gly Arg Lys Ile Lys Gly Ser His Arg Ile Ala Leu Val
  1                               10                          15
Lys Thr Lys His Thr Ile Ala Leu Thr Glu Tyr Leu Gly Asn Leu Pro
      20                        25                      30
Asn Leu Leu Ile Phe Gly Val Cys Phe Leu Thr Val Gly Leu Trp Glu
     35                     40                   45
Asp Val Ile Tyr Asp Gln Tyr Leu Pro Val Thr Leu Phe Ile Ser Leu
    50                    55                  60
```

4774

Ala Leu Lys Ala Asn Gly Gly Lys Lys Ser Met Lys Lys Lys Arg Leu
 65 70 75 80

Ile Lys

<210> 5361

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5361

Gly Lys Met Cys Ala Ala Gln Val Arg Glu Tyr Tyr Leu Ala Xaa Lys
 1 5 10 15

Lys Lys Lys Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys
 20 25 30

Met Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu
 35 40 45

Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln
 50 55 60

Leu Asn Arg Leu Ala Xaa His Pro Pro Phe Ala Ser Trp Arg Asn Ser
 65 70 75 80

Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Lys Pro Glu
 85 90 95

4775

Trp Xaa Met Xaa
100

<210> 5362

<211> 379

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5362

Arg Pro Thr Arg Pro Val Phe Tyr Ala Xaa Glu Ser Trp Ile Lys Tyr
1 5 10 15

Asp Val Gln Glu Arg Gln Lys Tyr Leu Ala Gln Leu Leu Asn Ser Val
20 25 30

Arg Leu Pro Leu Leu Ser Val Lys Phe Leu Thr Arg Leu Tyr Glu Ala
35 40 45

Asn His Leu Ile Arg Asp Asp Arg Thr Cys Lys His Leu Leu Asn Glu
50 55 60

Ala Leu Lys Tyr His Phe Met Pro Glu His Arg Leu Ser His Gln Thr
65 70 75 80

Val Leu Met Thr Arg Pro Arg Cys Ala Pro Lys Val Leu Cys Ala Val
85 90 95

Gly Gly Lys Ser Gly Leu Phe Ala Cys Leu Asp Ser Val Glu Met Tyr
100 105 110

Phe Pro Gln Asn Asp Ser Trp Ile Gly Leu Ala Pro Leu Asn Ile Pro
115 120 125

Arg Tyr Glu Phe Gly Ile Cys Val Leu Asp Gln Lys Val Tyr Val Ile
130 135 140

Gly Gly Ile Ala Thr Asn Val Arg Pro Gly Val Thr Ile Arg Lys His
145 150 155 160

Glu Asn Ser Val Glu Cys Trp Asn Pro Asp Thr Asn Thr Trp Thr Ser
165 170 175

Leu Glu Arg Met Asn Glu Ser Arg Ser Thr Leu Gly Val Val Val Leu

4776

180					185					190					
Ala	Gly	Glu	Leu	Tyr	Ala	Leu	Gly	Gly	Tyr	Asp	Gly	Gln	Ser	Tyr	Leu
	195					200					205				
Gln	Ser	Val	Glu	Lys	Tyr	Ile	Pro	Lys	Ile	Arg	Lys	Trp	Gln	Pro	Val
	210					215					220				
Ala	Pro	Met	Thr	Thr	Thr	Arg	Ser	Cys	Phe	Ala	Ala	Ala	Val	Leu	Asp
	225					230					235				240
Gly	Met	Ile	Tyr	Ala	Ile	Gly	Gly	Tyr	Gly	Pro	Ala	His	Met	Asn	Ser
				245					250					255	
Val	Glu	Arg	Tyr	Asp	Pro	Ser	Lys	Asp	Ser	Trp	Glu	Met	Val	Ala	Ser
			260					265					270		
Met	Ala	Asp	Lys	Arg	Ile	His	Phe	Gly	Val	Gly	Val	Met	Leu	Gly	Phe
		275					280					285			
Ile	Phe	Val	Val	Gly	Gly	His	Asn	Gly	Val	Ser	His	Leu	Ser	Ser	Ile
	290					295					300				
Glu	Arg	Tyr	Asp	Pro	His	Gln	Asn	Gln	Trp	Thr	Val	Cys	Arg	Pro	Met
	305					310					315				320
Lys	Glu	Pro	Arg	Thr	Gly	Val	Gly	Ala	Ala	Val	Ile	Asp	Asn	Tyr	Leu
				325					330					335	
Tyr	Val	Val	Gly	Gly	His	Ser	Gly	Ser	Ser	Tyr	Leu	Asn	Thr	Val	Gln
			340					345					350		
Lys	Tyr	Asp	Pro	Ile	Ser	Asp	Thr	Trp	Leu	Asp	Ser	Ala	Gly	Met	Ile
		355					360					365			
Tyr	Cys	Arg	Cys	Asn	Phe	Gly	Leu	Thr	Ala	Leu					
	370					375									

<210> 5363

<211> 130

<212> PRT

<213> Homo sapiens

<400> 5363

Lys	His	Trp	Thr	Ser	Leu	Thr	Tyr	Phe	Phe	Ser	Phe	Ser	Ala	Phe	Arg
1				5					10					15	

Met	Ile	Pro	Tyr	Pro	Leu	Glu	Lys	Gly	His	Leu	Phe	Tyr	Pro	Tyr	Pro
			20					25					30		

4777

Ile Cys Thr Glu Thr Ala Asp Arg Glu Leu Leu Pro Ser Phe His Glu
 35 40 45
 Val Ser Val Tyr Pro Lys Lys Glu Leu Pro Phe Phe Ile Leu Phe Thr
 50 55 60
 Ala Gly Leu Cys Ser Phe Thr Ala Met Leu Ala Leu Leu Thr His Gln
 65 70 75 80
 Phe Pro Glu Leu Met Gly Val Phe Ala Lys Ala Met Ile Asp Ile Phe
 85 90 95
 Cys Ser Ala Glu Phe Arg Asp Trp Asn Cys Lys Ser Ile Phe Met Arg
 100 105 110
 Val Glu Asp Glu Leu Glu Ile Pro Pro Ala Pro Gln Ser Gln His Phe
 115 120 125
 Gln Asn
 130

<210> 5364
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 5364
 Ser Ser Ala Leu Glu Val Leu Glu Phe Leu Ile Ser Phe Ile Gln Phe
 1 5 10 15
 Gln Gly Leu Ile Phe Tyr Arg Leu Pro Arg Gln Phe Ile Gln Gly Leu
 20 25 30
 Leu Tyr Leu Arg Phe Thr Cys His Val Arg Ser Ser Gly Phe Glu His
 35 40 45
 Lys Leu Tyr Ser Trp Asp Leu Ser Asp Thr Pro Leu Leu Thr Gly Leu
 50 55 60
 Gly Phe His Phe Ser Asp Pro Phe
 65 70

<210> 5365
 <211> 62
 <212> PRT
 <213> Homo sapiens

4778

<400> 5365

```

Ser Ala Pro Ser Pro Asn Leu Leu Pro Leu Gly Arg Val Gly Leu Arg
 1              5              10              15

Asp Leu Leu Ser Trp Lys Val Leu Thr Leu Pro Gly Glu Gly Ala Arg
          20              25              30

His Cys Pro Arg Glu Ser Asn Arg Arg Trp Lys Lys Ser Ile Lys Ser
          35              40              45

Asp Gln Asp Gly Gly Lys Lys Lys Lys Lys Lys Arg Gly Gly
          50              55              60

```

<210> 5366

<211> 80

<212> PRT

<213> Homo sapiens

<400> 5366

```

Gln Leu Val Thr Val Glu Glu Ala Gly Trp Val Phe Ser Gly Pro Arg
 1              5              10              15

Lys Phe Lys Met Ser Ala Met Leu Ser Ile Ile Thr Phe Cys Cys Gln
          20              25              30

Lys Gly Trp Gln Ile Glu Ala Phe Leu Pro Ile Ala Phe Ser Glu Leu
          35              40              45

Pro Cys Gln Ser Phe Thr Leu Gly Lys Glu Arg Trp Ala Gly Ile Leu
          50              55              60

Gly Asn Arg Thr Pro Glu Thr Tyr Leu Cys Leu Pro Lys Asn Val Asp
 65              70              75              80

```

<210> 5367

<211> 360

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

4779

<220>

<221> SITE

<222> (360)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5367

```

Leu Pro Gln Ala Gln Gly Asp Gln Phe Pro Trp Glu Gln Ala Glu Gly
  1              5              10              15

Gln Ala Pro Gly Glu Asp Gly Gln Arg Leu Pro Asp Gln Ile His Pro
              20              25              30

Gly Val Pro Ala Arg Arg Arg Pro Trp Trp Arg Glu Arg Ala Arg Ala
              35              40              45

Val Arg Gly Leu Xaa Glu Gly Arg Glu Pro Glu Lys Arg Arg Glu Arg
  50              55              60

Lys Gln Arg Arg Glu Gly Gly Asp Gly Glu Glu Gln Asp Val Gly Asp
  65              70              75              80

Ala Gly Arg Leu Leu Leu Arg Val Leu His Val Ser Glu Asn Pro Val
              85              90              95

Pro Leu Thr Val Arg Val Ser Pro Glu Val Arg Asp Val Arg Pro Tyr
              100             105             110

Ile Val Gly Ala Val Val Arg Gly Met Asp Leu Gln Pro Gly Asn Ala
  115             120             125

Leu Lys Arg Phe Leu Thr Ser Gln Thr Lys Leu His Glu Asp Leu Cys
  130             135             140

Glu Lys Arg Thr Ala Ala Thr Leu Ala Thr His Glu Leu Arg Ala Val
  145             150             155             160

Lys Gly Pro Leu Leu Tyr Cys Ala Arg Pro Pro Gln Asp Leu Lys Ile
              165             170             175

Val Pro Leu Gly Arg Lys Glu Ala Lys Ala Lys Glu Leu Val Arg Gln
              180             185             190

Leu Gln Leu Glu Ala Glu Glu Gln Arg Lys Gln Lys Lys Arg Gln Ser
  195             200             205

Val Ser Gly Leu His Arg Tyr Leu His Leu Leu Asp Gly Asn Glu Asn
  210             215             220

Tyr Pro Cys Leu Val Asp Ala Asp Gly Asp Val Ile Ser Phe Pro Pro
  225             230             235             240

```

4780

Ile Thr Asn Ser Glu Lys Thr Lys Val Lys Lys Thr Thr Ser Asp Leu
 245 250 255
 Phe Leu Glu Val Thr Ser Ala Thr Ser Leu Gln Ile Cys Lys Asp Val
 260 265 270
 Met Asp Ala Leu Ile Leu Lys Met Ala Glu Met Lys Lys Tyr Thr Leu
 275 280 285
 Glu Asn Lys Glu Glu Gly Ser Leu Ser Asp Thr Glu Ala Asp Ala Val
 290 295 300
 Ser Gly Gln Leu Pro Asp Pro Thr Thr Asn Pro Ser Ala Gly Lys Asp
 305 310 315 320
 Gly Pro Ser Leu Leu Val Val Glu Gln Val Arg Val Val Asp Leu Glu
 325 330 335
 Gly Ser Leu Lys Val Val Tyr Pro Ser Lys Ala Asp Leu Ala Thr Ala
 340 345 350
 Pro Pro His Val Thr Val Val Xaa
 355 360

<210> 5368

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5368

Ala Arg Xaa Pro Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
 1 5 10 15

4781

Ala Val Xaa Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
 20 25 30

Ser Ala Arg Asp Phe Glu His Ser Ser Asp Ile
 35 40

<210> 5369

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5369

Leu Gln Thr Lys Pro Ser Pro Ala Phe Phe Leu Leu Leu Leu Val Leu
 1 5 10 15

Gln Leu Gln Gly Pro Phe Thr Phe Met Ser Glu Met Glu Leu Trp Leu
 20 25 30

Phe Gln Trp Lys Asn Met Leu Lys Val Ser Phe Cys Ser Arg Lys Lys
 35 40 45

Lys Ser Leu Pro Lys Trp Gly Lys Lys Leu Tyr Ile Tyr Leu Ile Ile
 50 55 60

Gln Asn Thr Asp Gln Ser Leu Asp Leu Lys Lys Lys Lys Lys
 65 70 75

<210> 5370

<211> 47

<212> PRT

<213> Homo sapiens

<400> 5370

Gly Ile Thr Ile Arg Lys Thr Val Cys Thr Cys Ser Leu Gln Met Gln
 1 5 10 15

Pro Leu Leu Ser Leu Thr Thr Ser Phe Tyr Leu Gln Leu Ile Glu Ser
 20 25 30

Met Asp Val Glu Pro Val His Met Glu Gly Gln Leu Tyr Tyr Lys
 35 40 45

<210> 5371

<211> 61

<212> PRT

4782

<213> Homo sapiens

<400> 5371

```

Thr Val Leu Ser Leu Ala Gly Leu Leu Gly Gly Lys Tyr Leu Gln Asn
 1             5             10             15

Asn Gly Ile Val Leu Gly Phe Leu Leu Ala Leu Glu Thr His Leu Phe
          20             25             30

Thr Asn Arg Phe Pro Glu Asp Thr Leu Ile Ser Pro Ser Tyr Leu Pro
          35             40             45

Glu Cys Leu Leu Met Ala Ser Leu Lys Lys Gly Gly Leu
      50             55             60

```

<210> 5372

<211> 56

<212> PRT

<213> Homo sapiens

<400> 5372

```

Ser Ser Cys Pro Lys Ala Leu Trp Gly Pro Gly Trp Arg Ser Gln Gly
 1             5             10             15

Ile Leu Tyr Asp Leu Ala Ile Gly Cys Lys Arg Lys His Ile Pro Cys
          20             25             30

Cys Gly Ser Cys Ile Leu Phe His Ser Ser Pro Leu Lys Glu Lys Val
          35             40             45

His Val Leu Ser Pro Ala His Pro
      50             55

```

<210> 5373

<211> 238

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

4783

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5373

Glu	Lys	Leu	Ile	Leu	Leu	Leu	Ser	Leu	Pro	Gly	Ile	Asp	Ile	Asn	Xaa
1				5					10					15	

Lys	Asp	Asn	Ala	Gly	Trp	Thr	Pro	Leu	His	Glu	Ala	Cys	Asn	Tyr	Gly
			20					25					30		

Asn	Thr	Val	Cys	Val	Gln	Glu	Ile	Leu	Gln	Arg	Cys	Pro	Glu	Val	Asp
		35					40					45			

Leu	Leu	Thr	Gln	Val	Asp	Gly	Val	Thr	Pro	Leu	His	Asp	Ala	Leu	Ser
	50					55					60				

Asn	Gly	His	Val	Glu	Ile	Gly	Lys	Leu	Leu	Leu	Gln	His	Gly	Gly	Pro
65					70					75					80

Val	Leu	Leu	Gln	Gln	Arg	Asn	Ala	Lys	Gly	Glu	Leu	Pro	Leu	Asp	Tyr
			85						90					95	

Val	Val	Ser	Pro	Gln	Ile	Lys	Glu	Glu	Leu	Xaa	Ala	Ile	Thr	Lys	Ile
			100					105					110		

Xaa	Asp	Thr	Val	Glu	Asn	Phe	His	Ala	Gln	Ala	Glu	Lys	His	Phe	His
		115					120					125			

Tyr	Gln	Gln	Leu	Glu	Phe	Gly	Ser	Phe	Leu	Leu	Ser	Arg	Met	Leu	Leu
130						135					140				

Asn	Phe	Cys	Ser	Ile	Phe	Asp	Leu	Ser	Ser	Glu	Phe	Ile	Leu	Ala	Ser
145					150					155					160

Lys	Gly	Leu	Thr	His	Leu	Asn	Glu	Leu	Leu	Met	Ala	Cys	Lys	Ser	His
				165					170					175	

Lys	Glu	Thr	Thr	Ser	Val	His	Thr	Asp	Trp	Leu	Leu	Asp	Leu	Tyr	Ala
			180					185					190		

Gly	Asn	Ile	Lys	Thr	Leu	Gln	Lys	Leu	Pro	His	Ile	Leu	Lys	Glu	Leu
	195						200					205			

Pro	Glu	Asn	Leu	Lys	Val	Cys	Pro	Gly	Val	His	Thr	Glu	Ala	Leu	Met
	210					215					220				

Ile	Thr	Leu	Glu	Met	Met	Cys	Arg	Ser	Val	Met	Glu	Phe	Ser		
225					230					235					

4784

<210> 5374

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5374

Ile	Lys	Asp	Cys	Leu	Lys	Thr	Lys	Gly	Asn	Leu	Thr	Asp	Glu	Lys	Lys
1				5					10					15	

Pro	Asp	Glu	Arg	His	Leu	Thr	Lys	Asn	Glu	Lys	Lys	Leu	Ser	Gly	Gln
			20					25					30		

Asn	Asn	Tyr	Glu	Lys	Met	Asn	Leu	Gln	Ile	Arg	Lys	Arg	Glu	Lys	Ser
		35					40					45			

Leu	Phe	Asp	Thr	Met	Gly	Thr	Gln	Lys	Arg	Val	Asn	Thr	Asn	Val	Lys
	50					55					60				

Ile	Pro	Arg	Val	Lys	Lys	Ser	Ile	Ile	Thr	Thr	Phe	Arg	Ala
65					70					75			

<210> 5375

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5375

Phe	Gly	Arg	Ala	Val	Thr	Gln	Ala	Gly	Val	Leu	Trp	His	Asn	Leu	Gly
1				5					10					15	

Leu	Leu	Gln	Pro	Gln	Phe	Leu	Gly	Leu	Asn	Ser	Pro	Pro	Thr	Ser	Ala
			20					25					30		

Ser	Trp	Val	Ala	Gly	Thr	Thr	Val	Thr	Ala	Leu	Pro	Cys	Pro	Asp	Asn
		35					40					45			

Phe	Phe	Phe	Phe	Phe	Xaa
					50

4785

<210> 5376

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5376

His	Phe	Thr	Val	Leu	Phe	Gly	Ile	Ile	Leu	Tyr	Glu	Ala	Val	Trp	Ile
1				5					10					15	

Gly	Leu	Leu	Phe	Pro	Leu	Val	Asn	Trp	Leu	Met	Leu	Arg	Phe	Trp	Leu
			20					25					30		

Leu	Glu	Ser	Ile	Cys	Val	Phe	Pro	Val	Leu	Ala	Ser	His	Tyr	Val	Ile
		35					40					45			

Cys	Xaa	Ile	Phe
	50		

<210> 5377

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5377

Met	Arg	Leu	Lys	Ser	Val	Cys	Val	Cys	Xaa	Arg	Ala	Arg	Met	Trp	Pro
1				5					10					15	

Lys	Asn	Ser	Ala	Ile	Met	Ser	Asn	Ser	Ser	Phe	Ala	Leu	Phe	Leu	Arg
			20					25					30		

Val	Asp	Asp	Ile	Arg	His	Phe	Ser	Val	Phe	Gly	Glu	Ile	Asp	Trp	Asp
		35					40					45			

Thr	Ser	Pro	Lys	Pro	Thr	Gln	Val	Cys	Asn	Trp	Lys	Pro	Gly	Gly	Trp
	50					55					60				

Phe	Ser	Gly	Pro	Leu	Cys	Pro	Leu	Ser	Phe	Thr	Val	Ile	Leu	Phe	Thr
65					70					75				80	

4786

Ser Thr

<210> 5378

<211> 290

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5378

Thr	Asn	Ser	Xaa	Phe	Asp	Lys	Gln	Asn	Asp	Asp	Pro	Lys	Glu	Arg	Ile
1				5					10					15	
Asp	Lys	Asp	Thr	Lys	Asn	Val	Asn	Ser	Asn	Thr	Gly	Met	Gln	Thr	Thr
			20					25					30		
Glu	Asn	Tyr	Leu	Thr	Glu	Lys	Gly	Asn	Glu	Arg	Asn	Val	Lys	Phe	Pro
		35					40					45			
Pro	Glu	His	Pro	Val	Glu	Asn	Asp	Val	Thr	Gln	Thr	Val	Ser	Ser	Phe
		50					55				60				
Ser	Leu	Pro	Ala	Ser	Ser	Arg	Ser	Lys	Lys	Leu	Cys	Asp	Val	Thr	Thr
	65					70				75					80
Gly	Leu	Lys	Ile	His	Val	Ser	Ile	Pro	Asn	Arg	Ile	Pro	Lys	Ile	Val
				85					90					95	
Lys	Glu	Gly	Glu	Asp	Asp	Tyr	Tyr	Thr	Asp	Gly	Glu	Glu	Ser	Ser	Asp
			100						105					110	
Asp	Gly	Lys	Lys	Tyr	His	Val	Lys	Ser	Lys	Ser	Ala	Lys	Pro	Ser	Thr
		115							120				125		
Asn	Val	Lys	Lys	Ser	Ile	Arg	Lys	Lys	Tyr	Cys	Lys	Val	Ser	Ser	Ser
		130					135					140			
Ser	Ser	Ser	Ser	Leu	Ser	Ser	Ser	Ser	Ser	Gly	Ser	Gly	Thr	Asp	Cys
	145					150					155				160
Leu	Asp	Ala	Gly	Ser	Asp	Ser	His	Leu	Ser	Asp	Ser	Ser	Pro	Ser	Ser
				165					170					175	
Lys	Ser	Ser	Lys	Lys	His	Val	Ser	Gly	Ile	Thr	Leu	Leu	Ser	Pro	Lys
			180						185					190	

4787

His Lys Tyr Lys Ser Gly Ile Lys Ser Thr Glu Thr Gln Pro Ser Ser
 195 200 205
 Thr Thr Pro Lys Cys Gly His Tyr Pro Glu Glu Ser Glu Asp Thr Val
 210 215 220
 Thr Asp Val Ser Pro Leu Ser Thr Pro Asp Ile Ser Pro Leu Gln Ser
 225 230 235 240
 Phe Glu Leu Gly Ile Ala Asn Asp Gln Lys Val Lys Ile Lys Lys Gln
 245 250 255
 Glu Asn Val Ser Gln Glu Ile Tyr Glu Asp Val Glu Asp Leu Lys Asn
 260 265 270
 Asn Ser Lys Tyr Leu Lys Ala Ala Lys Lys Gly Glu Glu Asn Leu Gly
 275 280 285
 Leu Leu
 290

<210> 5379
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 5379
 Pro Lys Thr Ala Phe Asp Ser Cys Ser Pro Thr Cys Ser Ser Pro Ser
 1 5 10 15
 Phe Leu His Leu Arg Asn Val Thr Ser Ser Ala Lys Ser Phe Pro Asp
 20 25 30
 Leu Ser Lys Ile Ile Thr Ser Ser Val Cys Cys Gly Asn Leu Tyr Arg
 35 40 45
 Met Val Gly Lys Phe Gln Val Ser Tyr Leu Asp
 50 55

<210> 5380
 <211> 152
 <212> PRT
 <213> Homo sapiens

<400> 5380
 Lys Leu Leu Leu Phe Ser Leu Ser Ile Leu Leu Phe Phe Gly Lys Gln

4788

1	5	10	15
Ser Leu Ser Pro Val Met Gly Gly Gly Gly Trp Glu Arg Leu His Ser	20	25	30
Thr Pro Trp Lys Trp Glu Tyr Pro Tyr Val Val Phe Gly Ile Phe Leu	35	40	45
Tyr Gly Lys Phe Val Ser Pro Ser His Pro Asn Leu Phe Thr Ser Val	50	55	60
Trp Thr His Val Tyr Phe Val Phe Trp Val Thr Gln Tyr Leu Phe Cys	65	70	75
Cys Leu Ser Cys Pro Ala Trp Leu Leu Gly Val Leu Pro Gly Trp Leu	85	90	95
Leu Cys Pro Phe Asp Val Pro Ile Leu Leu Ile Phe Glu His Phe Leu	100	105	110
Leu Ser Gly Thr Thr Arg Cys Ser Arg Phe Ile Leu Asp Ile Pro Cys	115	120	125
Pro Asn Pro Arg Ile Pro Arg Ile Asn Pro Cys Ser Lys Glu Pro Trp	130	135	140
Phe Leu Leu Leu Glu Asn His Thr	145	150	

<210> 5381

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5381

Phe Leu Cys Ser Val Val Tyr Phe Phe Phe Leu Leu Leu Leu Ser Pro	1	5	10	15
Leu Ser Pro Leu Lys Ala Gly Asn Arg Leu Leu Glu Asn Leu Arg Gly	20	25	30	
Lys Arg Ile Leu Phe Thr Gly Gly Ser Arg Lys Leu Ser Glu Arg Ser	35	40	45	

4789

Ile Val Leu Ser Pro Phe Pro Leu Ser Phe Gln Phe Gly Xaa Trp Trp
 50 55 60

Ser Glu Glu Glu Lys Glu Ile Leu Cys Met Tyr Val
 65 70 75

<210> 5382

<211> 50

<212> PRT

<213> Homo sapiens

<400> 5382

Gly Asp Asp Phe Gly Arg Asn Pro Phe Gly Thr Thr His Pro Ala Met
 1 5 10 15

Ser Val Glu Lys Trp Asn Cys Asn Pro Gln Glu Ser His Phe Ile Phe
 20 25 30

Leu Pro Phe Lys Trp Leu Ile Lys Gly Ser Ala Ser Ser Thr Gly Phe
 35 40 45

Met Glu
 50

<210> 5383

<211> 133

<212> PRT

<213> Homo sapiens

<400> 5383

Asn Ala His Ala Gly Arg Tyr Cys Ser Tyr Gln Tyr Phe Ala Phe Tyr
 1 5 10 15

Asn Lys Gly Leu Phe Ile Leu Met Pro Phe Leu Gln Asp Phe Phe Val
 20 25 30

Ile Ser Val His Met Lys Met Leu Thr Leu Asn Ile Asn Thr Trp Arg
 35 40 45

Pro Cys Pro Val Ala Leu Pro Trp Leu Pro Ala Trp Ser Val Phe Pro
 50 55 60

Cys Gly Phe Thr Cys Gly Pro Ala Val Ala Thr Ser Met Val Cys Val
 65 70 75 80

Leu Val Asp Ser Leu Gln Leu Ser Asp Ala Ser Phe Cys His Asn His
 85 90 95

4790

Leu Phe Pro Asp Thr Ile Val Leu Ile Leu Phe Gln Asn Cys Lys Ile
 100 105 110

Ile Ser Ser Leu Lys Cys Lys Gly Cys Phe Cys Ser Val Ser Val Phe
 115 120 125

Phe Glu Ile Lys Leu
 130

<210> 5384

<211> 74

<212> PRT

<213> Homo sapiens

<400> 5384

Tyr Leu Phe Ser Leu Leu Phe Met Ser Leu Cys Arg Ile Leu Gly Tyr
 1 5 10 15

Ser Phe Ser Ser Arg Leu Ser Ser Leu Ile Leu Pro Leu Ala Val Phe
 20 25 30

His Tyr Cys Leu Ser Cys Pro Leu His Phe Lys Leu Ser Phe Lys Tyr
 35 40 45

Leu Pro Phe Pro Ser Phe Pro Phe Ser Ser Leu Pro Cys Pro Ala Leu
 50 55 60

Pro Cys Pro Ala Leu Pro Ser Pro Pro Leu
 65 70

<210> 5385

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4791

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5385

Ile	Phe	Asp	Phe	Phe	His	Gln	Arg	Phe	Cys	Phe	Pro	Ala	Ile	Asp	Phe
1				5					10					15	

Ala	Tyr	Leu	Leu	Leu	Asp	Leu	Tyr	Leu	Lys	Val	Leu	Ser	Phe	Trp	Asn
			20					25					30		

Val	Cys	Phe	Cys	Thr	Cys	Phe	Ala	Asn	Xaa	Phe	Leu	Asn	Ser	Lys	Phe
		35					40					45			

Tyr	Cys	Leu	Ala	Tyr	Asn	Asn	Leu	Asn	Phe	Xaa	Tyr	Ile	Asn	Pro	Gly
	50					55					60				

Glu	Lys	Glu	Pro	Lys	Xaa	Thr
65					70	

<210> 5386

<211> 74

<212> PRT

<213> Homo sapiens

<400> 5386

Leu	Ala	Asn	Cys	Ala	Phe	Lys	Lys	Lys	Asn	Arg	Gln	Thr	Phe	Glu	Gly
1				5					10					15	

Gln	Glu	Gly	Ser	Cys	Pro	Val	Phe	Gln	Lys	Ser	Phe	Phe	Pro	Ala	Ile
			20					25					30		

Arg	Asn	Val	Lys	Pro	Asn	Leu	Ala	Thr	Lys	Ile	Asn	Glu	Lys	Met	Gly
		35					40					45			

Phe	Pro	Leu	Val	Leu	Ser	Leu	Ser	Cys	Ser	Trp	Leu	Cys	Tyr	Val	Leu
	50					55					60				

Ser	Pro	Arg	Leu	Tyr	Pro	Asp	Lys	Met	Ser
65					70				

<210> 5387

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5387

4792

Gly Lys Arg His Ile Phe Ser Leu Thr Gln Leu Ala Asp Thr Glu Val
 1 5 10 15

Gly Arg Trp Gln Glu Lys Ala Ser Thr Glu Leu Ile Gln Thr Cys Arg
 20 25 30

Lys Leu Pro Leu Leu Leu Leu Ser Lys Met Lys Gly Ser Gly Lys Arg
 35 40 45

His Leu Pro Phe Pro Ala Leu Arg Ile Leu Ala Ser Leu Ser Leu Tyr
 50 55 60

<210> 5388

<211> 220

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5388

Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly
 1 5 10 15

Ser Thr His Ala Ser Ala Asn Ser Phe Val Lys Phe Ala Asn Ile Glu
 20 25 30

Glu Asp Thr Pro Ser Tyr His Arg Arg Tyr Asp Phe Phe Val Ser Arg
 35 40 45

Phe Ser Ala Met Cys His Ser Cys His Ser Asp Pro Glu Ile Arg Thr
 50 55 60

Glu Ile Arg Ile Ala Gly Ile Arg Gly Ile Gln Gly Val Val Arg Lys

65				70				75				80			
Thr	Val	Asn	Asp	Glu	Leu	Arg	Ala	Thr	Ile	Trp	Glu	Pro	Gln	His	Met
				85				90				95			
Asp	Lys	Ile	Val	Pro	Ser	Leu	Leu	Phe	Asn	Met	Gln	Lys	Ile	Glu	Glu
				100				105				110			
Val	Asp	Ser	Arg	Ile	Gly	Pro	Pro	Ser	Ser	Pro	Ser	Ala	Thr	Asp	Lys
				115				120				125			
Glu	Glu	Asn	Pro	Ala	Val	Leu	Ala	Glu	Asn	Cys	Phe	Arg	Glu	Leu	Leu
				130				135				140			
Gly	Arg	Ala	Thr	Phe	Gly	Asn	Met	Asn	Asn	Ala	Xaa	Arg	Pro	Val	Phe
145				150				155				160			
Ala	His	Leu	Asp	His	His	Lys	Leu	Xaa	Asp	Pro	Asn	Glu	Phe	Ala	Val
				165				170				175			
His	Cys	Phe	Lys	Ile	Ile	Met	Tyr	Ser	Ile	Gln	Ala	Gln	Tyr	Ser	His
				180				185				190			
His	Val	Ile	Gln	Glu	Ile	Leu	Gly	His	Leu	Asp	Ala	Arg	Lys	Lys	Asp
				195				200				205			
Ala	Pro	Gly	Phe	Glu	Gln	Val	Leu	Phe	Arg	Phe	Xaa				
				210				215				220			

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

4794

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5389
 Leu Cys Val Arg Cys Ser Lys Lys Val Ala Gln Ser Val Met Arg Lys
 1 5 10 15
 Leu Xaa Gly Tyr Ile Leu Ser Arg Met Asn Arg Gln Asp Ser Leu Lys
 20 25 30
 Asn Phe Leu Gly Asn Glu Lys Xaa Ala Xaa Cys Asn Xaa Phe Met Pro
 35 40 45
 Ile Ile Pro Asn Thr Xaa Gly Gly Leu Lys Gly Glu Asp His Phe Xaa
 50 55 60
 Pro
 65

<210> 5390
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 5390
 Ile Cys Glu Ile Leu Ser Leu Cys Pro Phe Pro Thr Ser Gly Pro Thr
 1 5 10 15
 Pro Gly Pro Ser Pro Thr Phe Leu Leu Ser Ser Leu Ala Val Val Ile
 20 25 30
 Ile Trp Gly Leu Tyr Cys Thr Tyr Pro Gly Cys Val Cys Val Gly Trp
 35 40 45
 Gly Gln Pro Phe Cys Thr Glu Leu Pro Gly Pro Leu Pro Pro Arg Pro
 50 55 60

4795

Ser Ala Ser Leu Pro Thr His His Leu Lys Gly Arg Glu Leu Leu Phe
 65 70 75 80

Leu Pro Val Leu Phe Cys Phe Leu Val Leu Pro Pro His Pro Thr Pro
 85 90 95

Ser Leu Ile Tyr Pro Pro Ser Leu Ser Pro Phe Leu His Ser Gln Pro
 100 105 110

His Phe Leu Phe Phe Trp Ser Val Trp
 115 120

<210> 5391

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5391

Phe Thr Asn Trp Arg Leu Leu Ile Leu Ile His Leu Arg Phe Lys Ile
 1 5 10 15

Phe Ile Asn Cys Lys Gln Cys Asn Tyr Leu Tyr Phe Thr Val Pro Ser
 20 25 30

Gln Thr Phe His Leu Arg Phe Cys Cys Lys Lys His Gln Val Ser Xaa
 35 40 45

Thr

<210> 5392

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5392

Leu Leu Ala Ala Gly Ile Ser Glu Glu Gly Leu Val Leu Ile Leu Lys

4796

1 5 10 15
 Val Leu Cys Ser Cys Pro Arg Pro Glu Xaa Thr His Ala Glu Thr Leu
 20 25 30
 Pro Ser Pro Ser Lys Val Gln Gly Leu Val Thr Glu Tyr Trp Val Glu
 35 40 45
 His Met Thr Gly Ser Gln Leu Ile Pro Pro Ser Leu Pro Val Lys Pro
 50 55 60
 Gln Asp Ser Cys Phe Pro Gly Ser His Leu Arg Pro Leu Arg
 65 70 75

<210> 5393

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5393

Val Leu His His Val Leu Ile His Leu Ile Leu Thr Glu Ile Val Asn
 1 5 10 15
 Xaa Gly Ile Ile Leu Ile Leu Thr Leu Trp Ile Lys Lys Thr Lys Ala
 20 25 30
 Gln Arg Val Lys Ala Ser Leu Pro Glu Ile Ile Asp Cys Lys Phe Glu
 35 40 45

Arg

<210> 5394

<211> 29

<212> PRT

<213> Homo sapiens

<400> 5394

Ile Leu Thr Pro Pro Leu Cys Asp Ile Gln Lys Leu Asn Ser Lys Cys
 1 5 10 15
 Asn Lys His Leu Asn Ile Arg Ile Lys Thr Ile Lys Leu

4797

20

25

<210> 5395

<211> 187

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5395

Ala	Glu	Ala	Glu	Phe	Ala	Met	Asp	Ser	Asn	His	Gln	Ser	Asn	Tyr	Lys
1				5					10					15	

Leu	Ser	Lys	Thr	Glu	Lys	Lys	Phe	Leu	Arg	Lys	Gln	Ile	Lys	Ala	Lys
			20					25					30		

His	Thr	Leu	Leu	Arg	His	Glu	Gly	Ile	Glu	Thr	Val	Ser	Tyr	Ala	Thr
		35					40					45			

Gln	Ser	Leu	Val	Val	Ala	Asn	Gly	Gly	Leu	Gly	Asn	Gly	Val	Ser	Arg
	50					55					60				

Asn	Gln	Leu	Leu	Pro	Val	Leu	Glu	Lys	Cys	Gly	Leu	Val	Asp	Ala	Leu
65					70					75					80

Leu	Met	Pro	Pro	Asn	Lys	Pro	Tyr	Ser	Phe	Ala	Arg	Tyr	Arg	Thr	Thr
				85					90					95	

Glu	Glu	Ser	Lys	Arg	Ala	Tyr	Val	Thr	Leu	Asn	Gly	Lys	Glu	Val	Val
			100					105					110		

Asp	Asp	Leu	Gly	Gln	Lys	Ile	Thr	Leu	Tyr	Leu	Asn	Phe	Val	Glu	Lys
		115					120					125			

Val	Gln	Trp	Lys	Glu	Leu	Arg	Pro	Gln	Ala	Leu	Pro	Pro	Gly	Leu	Met
	130					135					140				

Val	Val	Glu	Glu	Ile	Ile	Ser	Ser	Glu	Glu	Glu	Lys	Met	Leu	Leu	Glu
145					150					155					160

Ser	Val	Asp	Trp	Thr	Glu	Asp	Xaa	Asp	His	Gln	Asn	Ser	Gln	Lys	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4798

165 170 175

Leu Lys Thr Xaa Lys Ser Lys Ala Phe Trp Leu
180 185

<210> 5396
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5396

Phe Phe Pro Phe Gly Asn Ser Val Asn Pro Ala Val Gly Cys Cys Leu
1 5 10 15

Ser Asp Tyr Lys Arg Leu Gly Ser Cys Phe Cys Phe Lys Cys Leu Arg
20 25 30

Leu Trp Ser Tyr Thr Leu Val Leu Leu Gly Gln Ser Glu His Cys Leu
35 40 45

Leu Cys Lys Ile Ile Ser Phe Arg Val Xaa Ser Cys Gln Ile Tyr Trp
50 55 60

Pro Leu Ile Gln Tyr Ser Trp Val Tyr Cys Met
65 70 75

<210> 5397
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4799

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5397

Glu	Asp	Gln	Glu	Lys	Lys	Glu	Leu	Lys	Met	Glu	Lys	Ala	Thr	Val	Arg
1				5					10					15	

Thr	Val	Gly	Tyr	Arg	Arg	Arg	Asn	Ser	Gly	Ser	Thr	Xaa	Asp	Pro	Pro
			20					25					30		

Pro	Gly	Xaa	Met	Ser	Phe	Gln	Glu	Trp	Asn	Pro	Ser	Leu	Val	Met	Val
		35					40					45			

Ser	Xaa	Pro	Val	Leu	Pro	Ala	Ser	Thr	Leu	Pro	Cys	Pro	Pro	Arg	Gly
	50					55					60				

Val	Ser	Glu	Ser	Ala	Ser	Gly	Phe	Leu	Met	Met	Val	Val	Val	Val	Val
65					70					75					80

Val

<210> 5398

<211> 83

<212> PRT

<213> Homo sapiens

<400> 5398

Tyr	Phe	Val	His	His	Asn	Phe	Cys	Ile	Tyr	Phe	Phe	Lys	Tyr	Cys	Ile
1				5					10					15	

Lys	Ile	Ser	Phe	Ser	Leu	Ile	Ile	Glu	Phe	Phe	Gly	Leu	Arg	Phe	Phe
			20					25					30		

Val	Ala	Ser	Phe	Phe	Phe	Ser	Phe	Phe	Pro	Pro	Leu	Phe	Phe	Gly	Cys
		35					40					45			

Pro	Leu	Lys	Phe	Cys	Pro	Lys	Ala	Gly	Thr	Ser	Leu	Ile	Ser	Ser	Leu
	50					55					60				

Ala	Gln	Pro	Cys	Trp	Leu	Val	Phe	Ser	Ile	Tyr	Phe	Ser	Lys	Ile	Phe
65					70					75					80

Val Ser Val

4800

<210> 5399

<211> 227

<212> PRT

<213> Homo sapiens

<400> 5399

Phe Ile Leu Arg Arg Leu Thr Met Asn Glu Leu Asn Ser Val Ser Asp
 1 5 10 15

Leu Asp Arg Cys His Leu Tyr Leu Met Val Leu Thr Glu Leu Ile Asn
 20 25 30

Leu His Leu Lys Val Gly Trp Lys Arg Gly Asn Pro Ile Trp Arg Val
 35 40 45

Ile Ser Leu Leu Lys Asn Ala Ser Ile Gln His Leu Gln Glu Met Asp
 50 55 60

Ser Gly Gln Glu Pro Thr Val Gly Ser Gln Ile Gln Arg Val Val Ser
 65 70 75 80

Met Ala Ala Leu Ala Met Val Cys Glu Ala Ile Asp Gln Lys Pro Glu
 85 90 95

Leu Gln Leu Asp Ser Leu His Ala Gly Pro Leu Glu Ser Phe Leu Ser
 100 105 110

Ser Leu Gln Leu Asn Gln Thr Leu Gln Lys Pro His Ala Glu Glu Gln
 115 120 125

Ser Ser Tyr Ala His Pro Leu Glu Cys Ser Ser Val Leu Glu Glu Ser
 130 135 140

Ser Ser Ser Gln Gly Trp Gly Lys Ile Val Ala Gln Tyr Ile His Asp
 145 150 155 160

Gln Trp Val Cys Leu Ser Phe Leu Leu Lys Lys Tyr His Thr Leu Ile
 165 170 175

Pro Thr Thr Gly Ser Glu Ile Leu Glu Pro Phe Leu Pro Ala Val Gln
 180 185 190

Met Pro Ile Arg Thr Leu Gln Ser Ala Leu Glu Ala Leu Thr Val Leu
 195 200 205

Ser Ser Asp Gln Val Leu Pro Val Phe His Cys Leu Lys Val Leu Val
 210 215 220

Pro Asn Phe
 225

4801

<210> 5400

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5400

Gln	Thr	Cys	Arg	Phe	Leu	Leu	Met	Trp	Glu	Lys	Ile	Leu	Ile	Ile	Asn
1				5					10					15	

Asp	Ile	Lys	Val	Ile	Ile	Phe	Ser	Tyr	Val	Tyr	Arg	Tyr	Leu	Tyr	Phe
			20					25					30		

Phe	Leu	Asn	Glu	Leu	Leu	Met	Thr	Phe	Val	Tyr	Phe	Tyr	Leu	Gly	Leu
		35					40					45			

Leu	Leu	Ser	His	Leu	Phe	Leu
	50					55

<210> 5401

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5401

Gln	Ala	Arg	Leu	Pro	Ser	Ala	Asn	Leu	Ser	Asn	Trp	Gly	Gly	Glu	Arg
1				5					10					15	

Xaa	Ser	Ser	Ser	Glu	Gly	Arg	Ala	Arg	Cys	Gln	Ile	Cys	Ser	Ser	Ala
				20				25					30		

Pro	Ala	Ser	Ala	Ala	Arg	Arg	Arg	Ala	Glu	Gly	Ala	Pro	Gly	Pro	Arg
				35				40					45		

4802

Pro Val Thr Gly Arg Ala Gly Ala Pro Ala Val Arg Gly Arg Arg Arg
 50 55 60

Gly Pro Cys Arg Cys Trp Gly Thr Arg Tyr Arg Pro Cys Xaa Pro Arg
 65 70 75 80

Pro Pro Pro Xaa Gly Pro Leu Leu Ala Pro
 85 90

<210> 5402

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5402

Ile Arg His Glu Glu Leu Arg Lys Glu Gly Phe Asp Pro Ala Ile Val
 1 5 10 15

Lys Asp Pro Leu Phe Tyr Leu Asp Ala Gln Lys Gly Arg Tyr Val Pro
 20 25 30

Leu Asp Gln Glu Ala Tyr Ser Arg Ile Gln Ala Gly Glu Glu Lys Leu
 35 40 45

<210> 5403

<211> 100

<212> PRT

<213> Homo sapiens

<400> 5403

Phe Gly Thr Arg Thr Lys Pro Ile Lys Pro Ala Leu Lys Ser Ala Glu
 1 5 10 15

Val Glu Leu Lys Thr Gly Gly Asn Asn Ser Asn Gln Val Ser Glu Thr
 20 25 30

Asp Glu Lys Glu Asp Leu Leu His Glu Asn Arg Leu Met Gln Asp Glu
 35 40 45

Ile Ala Arg Leu Arg Leu Glu Lys Asp Thr Ile Lys Asn Gln Asn Leu
 50 55 60

Glu Lys Lys Tyr Leu Lys Asp Phe Glu Ile Val Lys Arg Lys His Glu

4803

65 70 75 80

Asp Leu Gln Lys Ala Leu Lys Arg Glu Trp Gly Asn Ile Ser Lys Asn

 85 90 95

Asp Ser Leu Leu

 100

<210> 5404

<211> 38

<212> PRT

<213> Homo sapiens

<400> 5404

Pro His Arg Thr Ala Phe Ser Cys Phe Ser Asp Thr Leu Met Lys Val

1 5 10 15

Trp Arg Ser Gly Asp Ile Ile Asp Lys Ile Tyr Gln Phe Pro Glu Lys

 20 25 30

Thr Leu Asp Leu Lys Thr

 35

<210> 5405

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5405

Asp His Thr Gly Gln Arg Gly Leu His Ser His Leu Arg Leu Gln Asp

1 5 10 15

Gly Arg Pro Ala Ala Gly Gly Thr Arg Gly His Arg Ala Pro Leu Pro

 20 25 30

Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg

 35 40 45

Pro Pro Pro Arg Trp Ser Thr Ser Phe Val Pro Leu Val Ser

 50 55 60

<210> 5406

<211> 183

<212> PRT

<213> Homo sapiens

4804

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5406

Leu	Pro	Pro	Gln	Ala	Phe	Asn	His	Ile	Ala	Lys	Leu	Cys	Ser	Leu	Lys
1				5					10					15	

Arg	Leu	Val	Leu	Tyr	Arg	Thr	Lys	Val	Glu	Ile	Glu	Asp	Tyr	Asp	Val
			20					25					30		

Ile	Ala	Ser	Met	Ile	Gly	Ala	Lys	Cys	Lys	Lys	Leu	Arg	Thr	Leu	Asp
		35					40					45			

Leu	Trp	Arg	Cys	Lys	Asn	Ile	Thr	Glu	Asn	Gly	Ile	Ala	Glu	Leu	Ala
	50					55					60				

Ser	Gly	Cys	Pro	Leu	Leu	Glu	Glu	Leu	Asp	Leu	Gly	Trp	Cys	Gln	Leu
65					70					75					80

Cys	Arg	Xaa	His	Arg	Val	Phe	Thr	Arg	Leu	Ala	His	Gln	Leu	Pro	Asn
			85						90					95	

Leu	Gln	Lys	Leu	Phe	Leu	Thr	Ala	Asn	Arg	Ser	Val	Cys	Asp	Thr	Asp
			100					105					110		

Ile	Asp	Glu	Leu	Ala	Cys	Asn	Cys	Thr	Arg	Leu	Gln	Xaa	Leu	Asp	Ile
		115					120					125			

Leu	Xaa	Thr	Arg	Met	Val	Ser	Pro	Ala	Ser	Leu	Arg	Lys	Leu	Leu	Glu
	130					135					140				

Ser	Cys	Lys	Asp	Leu	Ser	Leu	Leu	Asp	Val	Ser	Phe	Cys	Ser	Gln	Ile
145					150					155					160

Asp	Asn	Arg	Ala	Val	Leu	Glu	Leu	Asn	Ala	Ser	Phe	Pro	Lys	Val	Phe
				165					170					175	

Ile	Lys	Lys	Ser	Phe	Thr	Gln
-----	-----	-----	-----	-----	-----	-----

4805

180

<210> 5407

<211> 89

<212> PRT

<213> Homo sapiens

<400> 5407

Ser Ser Trp Val Gly Gly Ser Leu Arg Gln Ala Ala Thr Leu Glu Gly
 1 5 10 15

Glu Gln Gly Ser Ala Val Ser Ala Ala Ser His Ala Arg Ser Asp Leu
 20 25 30

Ser Leu Gly Thr Pro Gln Glu Pro Glu Asp Ser Ser Gly Gln Cys Arg
 35 40 45

Trp Gly Val Gly Gly Glu Ser Gly Arg Glu Ala Leu Arg Ala Pro Ser
 50 55 60

Pro Thr Thr Asn Leu Ala Leu Val Val Ile Phe Arg Gln Asn Phe Val
 65 70 75 80

Val Phe Phe Pro Phe Tyr Asp Gly Phe
 85

<210> 5408

<211> 322

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5408

His Ile Xaa Thr His Thr Gly Glu Arg Pro Phe Lys Cys Pro Phe Glu
 1 5 10 15

Gly Cys Gly Arg Ser Phe Thr Thr Ser Asn Ile Arg Lys Val His Val
 20 25 30

Arg Thr His Thr Gly Glu Arg Pro Tyr Tyr Cys Thr Glu Pro Gly Cys
 35 40 45

Gly Arg Ala Phe Ala Ser Ala Thr Asn Tyr Lys Asn His Val Arg Ile

4806

50		55		60															
His	Thr	Gly	Glu	Lys	Pro	Tyr	Val	Cys	Thr	Val	Pro	Gly	Cys	Asp	Lys				
65					70					75					80				
Arg	Phe	Thr	Glu	Tyr	Ser	Ser	Leu	Tyr	Lys	His	His	Val	Val	His	Thr				
				85					90					95					
His	Ser	Lys	Pro	Tyr	Asn	Cys	Asn	His	Cys	Gly	Lys	Thr	Tyr	Lys	Gln				
			100					105					110						
Ile	Ser	Thr	Leu	Ala	Met	His	Lys	Arg	Thr	Ala	His	Asn	Asp	Thr	Glu				
		115					120					125							
Pro	Ile	Glu	Glu	Glu	Gln	Glu	Ala	Phe	Phe	Glu	Pro	Pro	Pro	Gly	Gln				
	130					135					140								
Gly	Glu	Asp	Val	Leu	Lys	Gly	Ser	Gln	Ile	Thr	Tyr	Val	Thr	Gly	Val				
145					150					155					160				
Glu	Gly	Asp	Asp	Val	Val	Ser	Thr	Gln	Val	Ala	Thr	Val	Thr	Gln	Ser				
				165					170					175					
Gly	Leu	Ser	Gln	Gln	Val	Thr	Leu	Ile	Ser	Gln	Asp	Gly	Thr	Gln	His				
			180					185					190						
Val	Asn	Ile	Ser	Gln	Ala	Asp	Met	Gln	Ala	Ile	Gly	Asn	Thr	Ile	Thr				
	195						200					205							
Met	Val	Thr	Gln	Asp	Gly	Thr	Pro	Ile	Thr	Val	Pro	Ala	His	Asp	Ala				
	210					215					220								
Val	Ile	Ser	Ser	Ala	Gly	Thr	His	Ser	Val	Ala	Met	Val	Thr	Ala	Glu				
225					230					235					240				
Gly	Thr	Glu	Gly	Gln	Gln	Val	Ala	Ile	Val	Ala	Gln	Asp	Leu	Ala	Ala				
				245					250					255					
Phe	His	Thr	Ala	Ser	Ser	Glu	Met	Gly	His	Gln	Gln	His	Ser	His	His				
			260					265					270						
Leu	Val	Thr	Thr	Glu	Thr	Arg	Pro	Leu	Thr	Leu	Val	Ala	Thr	Ser	Asn				
		275					280					285							
Gly	Thr	Gln	Ile	Ala	Val	Gln	Leu	Gly	Glu	Gln	Pro	Ser	Leu	Glu	Glu				
	290					295					300								
Ala	Ile	Arg	Ile	Ala	Ser	Arg	Ile	Gln	Gln	Gly	Glu	Thr	Pro	Gly	Leu				
305					310					315					320				
Asp	Asp																		

4807

<210> 5409

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5409

Leu Arg Leu Gln Glu Pro Ala Thr Thr His Pro Cys Pro Pro Thr Leu
1 5 10 15

Gly Leu Ile Phe Val Thr Ser Pro His Tyr Ser Glu Leu Val Arg Pro
20 25 30

Leu His Phe Cys Phe Thr Gln Leu Thr Trp Phe Ala His Thr Asp Thr
35 40 45

Asn Lys His Leu Ser Ile Pro Met Ser Leu Leu Ser Ser Lys Asn Thr
50 55 60

<210> 5410

<211> 27

<212> PRT

<213> Homo sapiens

<400> 5410

Ser Thr His Ala Ser Gly Ser Arg Ser Arg Ala Ala Ala Leu Phe Phe
1 5 10 15

Phe Phe Lys Arg Phe Cys Thr Gly Lys Lys Lys
20 25

<210> 5411

<211> 205

<212> PRT

<213> Homo sapiens

<400> 5411

Ala Ala Ala Ala Ala Gly Asp Pro Gly Ala Met Gly Arg Ala Arg Asp
1 5 10 15

Ala Ile Leu Asp Ala Leu Glu Asn Leu Thr Ala Glu Glu Leu Lys Lys

20							25							30						
Phe	Lys	Leu	Lys	Leu	Leu	Ser	Val	Pro	Leu	Arg	Glu	Gly	Tyr	Gly	Arg					
35			40					45												
Ile	Pro	Arg	Gly	Ala	Leu	Leu	Ser	Met	Asp	Ala	Leu	Asp	Leu	Thr	Asp					
50			55					60												
Lys	Leu	Val	Ser	Phe	Tyr	Leu	Glu	Thr	Tyr	Gly	Ala	Glu	Leu	Thr	Ala					
65			70					75					80							
Asn	Val	Leu	Arg	Asp	Met	Gly	Leu	Gln	Glu	Met	Ala	Gly	Gln	Leu	Gln					
85				90					95											
Ala	Ala	Thr	His	Gln	Gly	Ser	Gly	Ala	Ala	Pro	Ala	Gly	Ile	Gln	Ala					
100				105					110											
Pro	Pro	Gln	Ser	Ala	Ala	Lys	Pro	Gly	Leu	His	Phe	Ile	Asp	Gln	His					
115			120					125												
Arg	Ala	Ala	Leu	Ile	Ala	Arg	Val	Thr	Asn	Val	Glu	Trp	Leu	Leu	Asp					
130			135					140												
Ala	Leu	Tyr	Gly	Lys	Val	Leu	Thr	Asp	Glu	Gln	Tyr	Gln	Ala	Val	Arg					
145			150					155					160							
Ala	Glu	Pro	Thr	Asn	Pro	Ser	Lys	Met	Arg	Lys	Leu	Phe	Ser	Phe	Thr					
165				170					175											
Pro	Ala	Trp	Asn	Trp	Thr	Cys	Lys	Asp	Leu	Leu	Leu	Gln	Ala	Leu	Arg					
180			185					190												
Glu	Ser	Gln	Ser	Tyr	Leu	Val	Glu	Asp	Leu	Glu	Arg	Ser								
195			200					205												

```
<210> 5412
<211> 158
<212> PRT
<213> Homo sapiens
```

<400> 5412

Ser Cys Cys Arg Cys Arg Cys Ala Arg Ala Thr Gly Ala Arg Asp Ala
1 5 10 15

Ile Leu Asp Ala Leu Glu Asn Leu Thr Ala Glu Glu Leu Lys Lys Phe
20 25 30

Lys Leu Val Ser Phe Tyr Leu Glu Thr Tyr Gly Ala Glu Leu Thr Ala
35 40 45

4809

```

Asn Val Leu Arg Asp Met Gly Leu Gln Glu Met Ala Gly Gln Leu Gln
  50                      55                      60

Ala Ala Thr His Gln Gly Ser Gly Ala Ala Pro Ala Gly Ile Gln Ala
  65                      70                      75                      80

Pro Pro Gln Ser Ala Ala Lys Pro Gly Leu His Phe Ile Asp Gln His
                      85                      90                      95

Arg Ala Ala Leu Ile Ala Arg Val Thr Asn Val Glu Trp Leu Leu Asp
                      100                      105                      110

Ala Leu Tyr Gly Lys Val Leu Thr Asp Glu Gln Tyr Gln Ala Val Arg
                      115                      120                      125

Pro Ser Pro Pro Thr Gln Ala Arg Cys Gly Ser Ser Ser Val Ser His
                      130                      135                      140

Gln Pro Gly Thr Gly Pro Ala Arg Thr Cys Ser Ser Arg Pro
145                      150                      155

```

<210> 5413

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5413

```

Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Lys Lys Lys Gln Met Leu
  1                      5                      10                      15

Lys Ser Tyr Trp Gln Ser Lys Leu Lys Leu Ala Ala Ile Phe Tyr Ile
                      20                      25                      30

Ile Ile Ser Ala Asn Pro Ile Phe
                      35                      40

```

<210> 5414

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

4810

<400> 5414

Ser Cys Leu Met Phe Phe Asn Met Pro Ser Tyr Lys Tyr Phe Ile Gln
 1 5 10 15

Tyr Val Val Phe Val Asn Leu Thr Asn Asp Ile Lys His Lys Leu Gln
 20 25 30

Cys Arg Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 35 40 45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 50 55 60

Lys Gly Xaa Pro Phe
 65

<210> 5415

<211> 186

<212> PRT

<213> Homo sapiens

<400> 5415

Ala His Ala Ser Asp Leu Arg Ala Glu Glu Ile Asp Pro Val Tyr Phe
 1 5 10 15

Asp Leu His Pro Gly Gln Gly His Thr Lys Pro Glu Tyr Tyr Tyr Pro
 20 25 30

Asn Phe Leu Pro Ser Pro Phe Ser Ser Trp Asp Leu Arg Asp Met Ala
 35 40 45

Leu Leu Leu Asn Ala Glu Asn Lys Thr Glu Ala Val Pro Arg Val Gly
 50 55 60

Gly Leu Leu Gly Lys Tyr Ile Asp Arg Leu Ile Gln Leu Glu Trp Leu
 65 70 75 80

Gln Val Gln Thr Val Gln Cys Glu Lys Ala Lys Gly Gly Lys Ala Arg
 85 90 95

Pro Pro Thr Ala Pro Gly Thr Ser Gly Ala Leu Lys Ser Pro Gly Arg
 100 105 110

Ser Lys Leu Ile Ala Ser Ala Leu Ser Lys Pro Leu Pro His Gln Glu
 115 120 125

Gly Ala Ser Lys Ser Gly Pro Ser Arg Lys Lys Ala Phe His His Glu
 130 135 140

4811

Glu Ile His Pro Ser His Tyr Ala Phe Glu Thr Ser Pro Arg Pro Ile
 145 150 155 160

Asp Val Leu Gly Gly Thr Arg Phe Cys Ser Gln Arg Gln Thr Leu Glu
 165 170 175

Met Arg Thr Glu Glu Lys Lys Lys Lys Lys
 180 185

<210> 5416

<211> 39

<212> PRT

<213> Homo sapiens

<400> 5416

Cys Tyr Ser Cys Gln Thr Asn Ser Ala Lys Ile Phe Lys Val Thr Arg
 1 5 10 15

Gly Lys Arg Met Thr Asn Arg Ser Ala Ser Glu Tyr Ile Phe Gln Asn
 20 25 30

Val Gly Lys Lys Leu Leu Asn
 35

<210> 5417

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5417

Gly Ile Ser Ser Gly Arg Thr Arg Arg Glu Ser Cys Glu Leu Tyr Cys
 1 5 10 15

Ile Met Tyr Ile Pro Asp Leu Ile Leu Tyr Arg Thr Phe Tyr Ser Asp
 20 25 30

Ile Asn Leu Leu His Lys His Phe Ser Asn Asp Thr Lys Ile Thr Asp
 35 40 45

Lys Ile Tyr Tyr Ile Gln
 50

<210> 5418

<211> 91

<212> PRT

4812

<213> Homo sapiens

<400> 5418

Val Pro Pro Thr Pro Gly Gln His Gln Asp Gly Ser Ser Leu Gly Ala
1 5 10 15

Phe Val Ser Pro Pro Cys Leu Cys Ser Glu Cys Ala Pro His Phe Ser
20 25 30

Ala Thr Leu Thr Leu Ser Leu Ile Trp Ser Cys Leu Thr Ser Leu Leu
35 40 45

Tyr Ala Leu Leu Leu Ser Ile Ser Ser Ala Leu Met Pro Ala Gly Val
50 55 60

Met Pro Glu Ile Ile Ser Glu Lys Ala Arg Gln Phe Cys Val Cys Val
65 70 75 80

Cys Ala His Arg Gly Val Leu Val Val Leu Ile
85 90

<210> 5419

<211> 36

<212> PRT

<213> Homo sapiens

<400> 5419

Val Lys Asn Gly Lys Gln Lys Val Thr Ala Val Met Asn Ile Leu Val
1 5 10 15

Gln Ile Leu Val Leu Asn Leu Thr Pro Glu Ser Lys Ile Leu Gly Ser
20 25 30

Leu Phe Pro Val
35

<210> 5420

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4813

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5420

Lys	Ser	Lys	Glu	Asn	Arg	Asn	Gln	Phe	Glu	Gly	Leu	Gln	Gly	Gly	Leu
1				5					10					15	

Leu	Ala	Gln	Leu	Ser	Ile	Asn	Thr	Tyr	Gly	Val	Ile	Ala	Val	Phe	Ser
		20						25					30		

Arg	Gly	Val	Leu	Leu	Arg	Ser	Gly	Phe	Leu	Gly	Leu	His	Ala	Ala	Met
		35					40					45			

Asp	Leu	Asp	Xaa	Pro	Ser	Val	Trp	Gly	Ser	Leu	Lys	Gln	Arg	Thr	Arg
	50					55					60				

Pro	Leu	Leu	Ile	Asn	Leu	Ser	Xaa	Lys	Lys	Val	Lys	Lys	Asn	Pro	Ser
65					70					75					80

Lys	Pro	Pro	Asp	Leu	Arg	Ala	Arg	His	His	Leu	Asp	Arg	Arg	Leu	Xaa
				85					90					95	

<210> 5421

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5421

Gln	Asn	Ile	Ser	Ser	Xaa	Leu	Ile	Gly	Pro	Thr	Xaa	Val	Phe	Arg	Val
1				5					10					15	

4814

Met Lys Leu Arg Phe Phe Cys Val Trp Leu His His Glu Ile Leu Arg
 20 25 30

Arg Pro Lys Pro
 35

<210> 5422

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5422

Xaa Lys Cys Lys Tyr Lys Thr Phe Gln Ile Lys Ile Glu Tyr Ala His
 1 5 10 15

Cys Ser Lys Ala Lys Leu Leu Pro Tyr Tyr Ile Tyr Phe Thr Ser Leu
 20 25 30

Ile Phe Ser Pro Ser Lys Met His Trp Tyr Ser Gly Leu Glu Ser Glu
 35 40 45

Ser Phe Ala Ile Lys Leu Thr Tyr Xaa Gly Phe Asn Pro Leu Lys Val
 50 55 60

Gln

65

<210> 5423

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5423

Gly Thr Ser Arg Pro Ser His Tyr His Val Leu Trp Asp Asp Asn Cys
 1 5 10 15

4815

Phe Thr Ala Asp Glu Leu Gln Leu Leu Thr Tyr Gln Leu Cys His Thr
20 25 30

Tyr Val Arg Cys Thr Arg Ser Val Ser Ile Pro Ala Pro Ala Tyr Tyr
35 40 45

Ala His Leu Val Ala Phe Arg Ala Arg Tyr His Leu Val Asp Lys Glu
50 55 60

His Asp Arg
65

<210> 5424

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5424

Pro Ile Gly Trp Lys Thr Arg Pro Ile Glu Glu Leu Gly Asn Val Ser
1 5 10 15

Phe Cys Tyr Phe Cys Tyr Ser Ser Leu Gly Phe Ile Val Ser Phe Phe
20 25 30

Ile Phe Lys Ile Leu Cys Leu Lys Val Phe Leu Leu Asn Tyr Glu Val
35 40 45

Asp Met His Val Tyr Ile Tyr Val Lys Tyr Leu Leu Cys Lys Val Phe
50 55 60

Phe Val Tyr Ser Leu Lys Arg Ser Leu Tyr Leu Asn Lys Ser Glu Gly
65 70 75 80

Gln Gln Xaa Lys Xaa Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys

85 90 95

4816

<210> 5425

<211> 25

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5425

Arg	Thr	Pro	Val	Val	Pro	Ala	Thr	Xaa	Glu	Ala	Lys	Val	Gly	Gly	Ser
1				5					10				15		

Leu	Glu	Pro	Gly	Arg	Gln	Arg	Leu	Gln
			20				25	

<210> 5426

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5426

Glu	Gln	Ser	Arg	Gln	Gly	Ile	Pro	Asn	Arg	Ile	Asn	Ser	Arg	Phe	Leu
1				5					10					15	

Ile	Gln	Lys	Pro	Cys	Lys	Pro	Arg	Lys	Ala	Met	Gly	Asp	Ile	Leu	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4817

20 25 30
 Asn Ala Glu Ile Lys Thr Val Gln Gln Thr Phe Pro His Pro Gln Gln
 35 40 45
 Lys Ser Xaa Asn Lys Gly Lys Ser Cys Cys Met Xaa Asn Leu Asn Lys
 50 55 60
 Ile Gly Phe Pro Ala Gly Xaa Phe Gly Xaa Asn Phe Pro Pro Leu Asn
 65 70 75 80
 Val Pro

<210> 5427

<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5427

Arg Gly Leu Ala Xaa Lys His Pro Gly Arg Val Gly Gln Ala Ala Leu
 1 5 10 15
 Tyr Gly Cys Gly Cys Trp Ala Glu Asn Thr Gly Ala His Asn Pro Tyr
 20 25 30
 Ser Thr Ala Val Ser Thr Ser Gly Cys Gly Glu His Leu Val Arg Thr
 35 40 45
 Ile Leu Ala Arg Glu Cys Ser His Ala Leu Gln Ala Glu Asp Ala His
 50 55 60
 Gln Ala Leu Leu Glu Thr Met Gln Asn Lys Phe Ile Ser Ser Pro Phe
 65 70 75 80
 Leu Ala Ser Glu Asp Gly Val Leu Gly Gly Val Ile Val Leu Arg Ser
 85 90 95
 Cys Arg Cys Ser Ala Glu Pro Asp Ser Ser Gln Asn Lys Gln Thr Leu
 100 105 110
 Leu Val Glu Phe Leu Trp Ser His Thr Thr Glu Ser Met Cys Val Gly
 115 120 125

4818

Tyr Met Ser Ala Gln Asp Gly Lys Ala Lys Thr His Ile Ser Arg Leu
 130 135 140

Pro Pro Gly Ala Val Ala Gly Gln Ser Val Ala Ile Glu Gly Gly Val
 145 150 155 160

Cys Arg Leu Glu Ser Pro Val Asn
 165

<210> 5428

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5428

Phe Asn Phe Glu Phe Lys Pro Lys Phe Ile Gly Arg Leu Pro Phe Asp
 1 5 10 15

Leu Pro Leu Pro Pro His Leu Val Leu Ser Cys Ile Tyr Thr Pro Gly
 20 25 30

Pro Cys Gly Gly Ala Ala Gly Gly Ser Cys Ala Pro Glu Met Arg Leu
 35 40 45

Glu Arg Glu Leu Ala Ser Leu Leu Pro Ser Ser Val Ser Lys Glu Pro
 50 55 60

Arg Pro Ser Gly Pro Ala Ser Xaa Lys Arg Trp Trp Asn Pro Cys Ala
 65 70 75 80

Gly

<210> 5429

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

4819

<400> 5429

Tyr Met Leu Gly Glu Lys Ile Tyr Glu Asn Phe Thr Ile Ile Phe Cys
1 5 10 15

Leu Asp Asn Arg Ser Glu Gly Phe Tyr Pro Thr Trp Lys Val Lys Gly
20 25 30

Leu Gly Leu Thr Asp Phe Leu Xaa Phe Ser Leu Asp Phe Met Lys Ser
35 40 45

Met Leu Ser Phe Ser Gln Lys His
50 55

<210> 5430

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5430

Gln Cys Arg Glu Val His Leu Glu Lys Arg Arg Gly Glu Gly Leu Gly
1 5 10 15

Val Ala Leu Val Glu Ser Gly Trp Gly Ser Leu Leu Pro Thr Ala Val
20 25 30

Ile Ala Asn Leu Leu His Gly Gly Pro Xaa Glu Arg Ser Gly Ala Leu
35 40 45

Ser Ile Gly Asp Pro Leu Thr Gly Xaa Lys Gly Asp Gln Pro
50 55 60

<210> 5431

<211> 133

<212> PRT

<213> Homo sapiens

4820

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5431

Phe	Leu	Gln	His	Trp	Ala	Ile	Arg	Asn	Asn	Phe	Leu	Lys	Ile	Thr	Val
1				5					10					15	

Leu	Tyr	Lys	Tyr	Leu	Lys	Phe	Lys	Tyr	Arg	Lys	Tyr	Leu	Lys	Gln	Lys
		20						25					30		

Ala	Leu	Leu	Xaa	Gly	His	Asp	Thr	Ser	Ala	Leu	Trp	Gln	Cys	Arg	Leu
		35					40					45			

Leu	Arg	Thr	Gln	Pro	Cys	Ser	Pro	Ser	Val	Cys	Ala	Pro	Ser	Leu	Ser
	50					55					60				

Ser	Phe	Ala	Val	Ile	Thr	His	Thr	Gly	Leu	Pro	Val	Trp	Ser	Leu	Glu
65					70					75					80

Lys	Pro	Gly	Phe	Gln	Ser	Thr	Val	Glu	His	Arg	Ile	Leu	Leu	Leu	Val
				85					90					95	

Trp	Met	Phe	Asn	Glu	Leu	Tyr	Phe	Lys	Tyr	Gln	Arg	Leu	Leu	Asn	Lys
			100						105				110		

Asp	Asn	Val	Cys	Phe	Ser	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
		115						120				125			

Xaa	Xaa	Lys	Xaa	Lys
				130

<210> 5432

4821

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5432

Val	Lys	Gly	Glu	Trp	Ser	Gln	Tyr	Pro	Gln	Lys	Cys	Ser	Lys	Arg	Ser
1				5					10					15	

Asn	Ser	Pro	Leu	Lys	Met	Ser	Leu	Phe	Leu	Ser	Met	Leu	Tyr	Pro	Gly
			20					25					30		

Val	Leu	Val	Glu	Gly	Trp	Gly	Asn	Gln	Lys	Ser	Arg	Phe	Thr	Phe	Asn
		35					40					45			

Ile	Phe	Leu	Asn	Tyr	Ile	His	Phe	Leu	Lys	Arg	Asn	Lys	Lys	Cys	Lys
	50					55					60				

<210> 5433

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5433

His	Ile	Arg	Asn	Lys	Ile	Leu	Gly	Tyr	Phe	Ile	Xaa	Leu	Ala	Tyr	Phe
1				5					10					15	

Phe	His	Asn	Leu	Arg	Ile	Thr	Val	Phe	Val	Glu	Glu	Ile	Arg	Gln	Ala
			20					25					30		

Asn	Lys	Val	Ala	Lys	Glu	Ala	Ala	Asn	Arg	Trp	Thr	Asp	Asn	Ile	Phe
		35					40					45			

Ala	Ile	Lys	Ser	Trp	Ala	Lys	Arg	Lys	Phe	Gly	Phe	Glu	Glu	Asn	Lys
	50					55					60				

Ile	Asp	Arg	Thr	Phe	Gly	Ile	Pro	Glu	Asp	Phe	Asp	Tyr	Ile	Asp
65					70					75				

<210> 5434

4822

<211> 183

<212> PRT

<213> Homo sapiens

<400> 5434

Gly Leu Leu Val Gly Val Gly Ala Ala Ala Val Met Pro Gly Ile Val
 1 5 10 15

Glu Leu Pro Thr Leu Glu Glu Leu Lys Val Asp Glu Val Lys Ile Ser
 20 25 30

Ser Ala Val Leu Lys Ala Ala Ala His His Tyr Gly Ala Gln Cys Asp
 35 40 45

Lys Pro Asn Lys Glu Phe Met Leu Cys Arg Trp Glu Glu Lys Asp Pro
 50 55 60

Arg Arg Cys Leu Glu Glu Gly Lys Leu Val Asn Lys Cys Ala Leu Asp
 65 70 75 80

Phe Phe Arg Gln Ile Lys Arg His Cys Ala Glu Pro Phe Thr Glu Tyr
 85 90 95

Trp Thr Cys Ile Asp Tyr Thr Gly Gln Gln Leu Phe Arg His Cys Arg
 100 105 110

Lys Gln Gln Ala Lys Phe Asp Glu Cys Val Leu Asp Lys Leu Gly Trp
 115 120 125

Val Arg Pro Asp Leu Gly Glu Leu Ser Lys Val Thr Lys Val Lys Thr
 130 135 140

Asp Arg Pro Leu Pro Glu Asn Pro Tyr His Ser Arg Pro Arg Pro Asp
 145 150 155 160

Pro Ser Pro Glu Ile Glu Gly Asp Leu Gln Pro Ala Thr His Gly Ser
 165 170 175

Arg Phe Tyr Phe Trp Thr Lys
 180

<210> 5435

<211> 65

<212> PRT

<213> Homo sapiens

<400> 5435

Gly Thr Gly Cys Cys Ala Glu Gly Arg Pro Glu Ser Gln Ser Ile Phe
 1 5 10 15

4823

Phe Thr Gly Ser Ala Gly Thr Gly Lys Ser Tyr Leu Leu Lys Arg Ile
 20 25 30

Leu Gly Ser Leu Pro Pro Thr Gly Thr Val Ala Thr Ala Ser Thr Gly
 35 40 45

Val Ala Ala Cys His Ile Gly Gly Thr Thr Leu His Ala Phe Ala Gly
 50 55 60

Lys
 65

<210> 5436

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5436

His Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
 1 5 10 15

Gln Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
 20 25 30

4824

Arg Xaa Arg Glu Leu Val Ser Ser Phe Xaa Phe Xaa Phe Phe His Gly
35 40 45

<210> 5437

<211> 62

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5437

Glu Leu Trp Ser Pro Cys Leu Val Leu Phe Lys Thr Leu Cys Tyr Thr
1 5 10 15

Gly Val Asp Pro Gly Leu Lys Val Ile Gln Phe Trp Gly Leu Ser Leu
20 25 30

Arg Lys Arg Ile Leu Lys Tyr Leu Thr Phe Ala Asn Ile Xaa Lys Ile
35 40 45

Tyr Cys His Ile Asn Met Leu Leu Gly Pro Leu Leu Gly Pro
50 55 60

<210> 5438

<211> 163

<212> PRT

<213> Homo sapiens

<400> 5438

Ser Phe Phe Phe Phe Ser Arg Ser His Val Ser Leu Leu Leu Pro Thr
1 5 10 15

Ala Thr Tyr Phe Ile Pro His Gly Ser Arg His Ser Ser Thr Leu Thr
20 25 30

Asn Phe Leu Thr Pro Ser Ser Phe Leu Glu Ile Ile Ser Ser Pro Cys
35 40 45

Ala Glu Thr Val Ile Ala Leu Ser Ala Glu Met Ala Val Ser Ser Gln
50 55 60

4825

Gln Gly Glu Ile Met Glu Ser Arg Ile Phe Phe Gln Gly Ser His Ala
 65 70 75 80
 His Phe Pro Thr Cys Met Asn Val Asp Thr Ala Ala Thr Val Leu Ala
 85 90 95
 Val Asn Val Asn Leu Ala Ser Asn His Cys Ser Gln Gly Asn Val Pro
 100 105 110
 Ile Arg Arg Arg Leu Ser Gly Thr Leu Ile Leu Thr Gly Arg Trp Asp
 115 120 125
 Ile Leu Arg Asp Pro Glu Ala Gly Cys His Leu Leu Asn Phe Pro Glu
 130 135 140
 Gly Cys Leu Gly Ile Cys Phe Leu Phe Ile Leu Glu Leu Phe Phe Leu
 145 150 155 160
 Phe Met Gly

<210> 5439

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5439

Gln Gly Ile Leu Tyr Phe His Tyr Asn Gln Ile Ile Glu Ile Thr Cys
 1 5 10 15

Val Lys Gly Leu Gln Glu Tyr Ile Gln Phe Leu Asn Ile Leu Ile Tyr
 20 25 30

4826

Leu Leu Ser Asp Asn Leu Ile Leu Leu Asn Tyr His Leu Pro Leu Ser
35 40 45

Tyr Phe Ile Ile Asn Ser Val Gln Phe Pro Pro Lys Lys Xaa Xaa Tyr
50 55 60

Leu Xaa Asn Ile
65

<210> 5440

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

4827

<400> 5440

```

Val Ile Pro Trp Arg Thr Xaa Ser Ala Asn Xaa Glu Xaa Asp Leu His
  1             5             10             15

Tyr Leu Xaa Leu Xaa Thr Xaa Thr Trp Ser Gly Arg Ile Thr Ile Asn
      20             25             30

Gly Glu Ser Pro Lys His Arg Ser Trp His Thr Leu Thr Pro Ile Ala
      35             40             45

Asp Asp Lys Leu Phe Leu Cys Gly Gly Leu Ser Ala Asp Asn Ile Pro
      50             55             60

Leu Ser Asp Gly Trp Ile His Asn Val Thr Thr Asn Cys Trp Lys Gln
      65             70             75             80

Leu Thr His Leu Pro Lys Thr Arg Pro Arg Leu Trp His Thr Ala Cys
      85             90             95

Leu Gly Lys Glu Asn Glu Ile Met Val Phe Gly Gly Ser Lys Asp Asp
      100            105            110

Leu Leu Ala Leu Asp Thr Gly His Cys Asn Asp Leu Leu Ile Phe Gln
      115            120            125

Thr Gln Pro Tyr Ser Leu Leu Arg Ser Cys Leu Asp Cys Ile Gly Lys
      130            135            140

Asn Ser Ile Met Leu Glu Ser Gln Ile Ser Leu Leu Pro Pro Lys Leu
      145            150            155            160

Leu Gln Xaa Val Leu Lys Lys Lys Lys Lys
      165            170

```

<210> 5441

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

4828

<400> 5441

```

Ile Gly Ser Val Pro Ala Val Pro Asn Gly Gln Cys Ile Gly Lys His
 1              5              10              15

Lys Lys Cys Asp His Asn Val Asp Cys Ser Asp Lys Ser Asp Glu Leu
              20              25              30

Asp Cys Tyr Pro Thr Glu Glu Pro Ala Pro Gln Ala Thr Asn Thr Val
              35              40              45

Gly Ser Val Ile Gly Val Ile Val Thr Ile Phe Val Ser Gly Thr Val
              50              55              60

Tyr Phe Ile Cys Gln Arg Met Leu Cys Pro Arg Met Lys Gly Asp Gly
 65              70              75              80

Glu Thr Met Thr Asn Asp Tyr Val Val His Gly Pro Ala Ser Val Pro
              85              90              95

Leu Gly Tyr Val Pro His Pro Ser Ser Leu Ser Gly Ser Leu Xaa Xaa
              100              105              110

Met Ser Arg Gly Lys Ser Met Ile
              115              120

```

<210> 5442

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5442

```

Asn Met Tyr Lys Asn Gly Tyr Lys Met Val Glu Ala Thr Arg Ser Val
 1              5              10              15

Thr Gly Ile Ile His Ile Asn Thr Thr Lys Ile Gln Phe Asn Ala Lys
              20              25              30

Leu Asn Asp Ile Ile Leu His Gln Asn Leu Phe His Thr Lys Ala His
              35              40              45

Ala Ser Arg Val Ser Ile Arg
              50              55

```

<210> 5443

<211> 125

<212> PRT

<213> Homo sapiens

4829

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5443

Leu	Leu	Lys	Arg	Ser	His	Phe	Asn	Cys	Phe	Cys	Tyr	Ser	Ile	Tyr	Cys
1				5					10					15	

His	Ser	Lys	Tyr	Ile	Leu	Thr	Gln	Asn	Lys	Leu	Asn	Asn	Leu	Cys	Met
			20					25					30		

Phe	Val	Cys	Val	Tyr	Met	His	Thr	Leu	Phe	Tyr	Ile	Lys	Ile	Leu	Arg
		35						40				45			

Leu	Tyr	Ser	His	Cys	Ala	Leu	Trp	Asn	Lys	Ala	Ile	Tyr	Ile	Asn	Val
	50					55					60				

Leu	Tyr	Val	Tyr	Val	Leu	Tyr	Ile	Xaa	Lys	Thr	Phe	His	Leu	Ile	Tyr
65					70					75					80

Ile	Cys	Val	Xaa	Glu	Tyr	Met	Cys	Ala	Cys	Leu	Ala	Asp	Ile	Cys	Ile
			85						90					95	

Lys	Tyr	Lys	His	Ser	Val	Val	Ile	Xaa	Ala	Ile	Cys	Glu	Ile	Val	Asn
			100					105					110		

Phe	Lys	Ile	Thr	Ser	Gly	His	Arg	Leu	Val	Val	Ile	Ile
		115					120				125	

<210> 5444

<211> 287

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (114)

4830

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5444

Gly	Ala	Met	Ala	Pro	Lys	Pro	Gly	Ala	Glu	Trp	Ser	Thr	Ala	Leu	Ser	1	5	10	15
His	Leu	Val	Leu	Gly	Val	Val	Ser	Leu	His	Ala	Ala	Val	Ser	Thr	Ala	20	25	30	
Glu	Ala	Ser	Arg	Gly	Ala	Ala	Ala	Gly	Phe	Leu	Leu	Gln	Val	Leu	Ala	35	40	45	
Ala	Thr	Thr	Thr	Leu	Ala	Pro	Gly	Leu	Ser	Thr	His	Glu	Asp	Cys	Leu	50	55	60	
Ala	Gly	Ala	Trp	Val	Ala	Thr	Val	Ile	Gly	Leu	Pro	Leu	Leu	Ala	Phe	65	70	75	80
Asp	Phe	His	Trp	Val	Asn	Gly	Asp	Arg	Ser	Ser	Ala	Asn	Leu	Leu	Leu	85	90	95	
Gly	Gly	Gly	Met	Val	Leu	Ala	Val	Ala	Gly	Gly	His	Leu	Gly	Pro	Glu	100	105	110	
Ala	Xaa	Cys	Gly	Trp	Ser	Gly	Asn	Ala	Val	Gly	Gly	Arg	Ser	Asp	His	115	120	125	
Pro	His	Cys	Ser	Cys	Leu	His	Gly	Gln	His	Leu	Trp	Asp	Val	Gly	Gly	130	135	140	
Gly	Asp	Ala	Gly	Cys	Gly	Arg	Pro	Pro	Glu	Pro	Ala	Gly	Gly	Gly	Gln	145	150	155	160
Ala	Ala	Ala	Ala	Thr	Glu	Gly	Gly	Cys	Leu	Ser	Leu	Gly	Leu	Gly	Cys	165	170	175	
Arg	Gln	Leu	Gly	Leu	Leu	Pro	Gly	Pro	Ala	Tyr	Thr	Ala	Pro	Pro	Val	180	185	190	
Gly	Val	Thr	Val	Gly	Tyr	Ser	Gln	Ala	Gly	Phe	Leu	Pro	Cys	Arg	Thr	195	200	205	
Leu	Ser	Leu	Pro	Pro	Ala	Cys	Ser	Trp	Arg	Leu	Leu	Pro	Arg	Gly	Arg	210	215	220	
Leu	Phe	Cys	Leu	Leu	Lys	Trp	Val	Cys	Cys	Thr	Leu	Thr	Gly	Gln	Gly	225	230	235	240
Gln	Ser	Leu	Gly	Ala	Val	Leu	Trp	Pro	Arg	Val	Gly	Thr	Cys	Leu	Asp	245	250	255	

4831

Gln Asn Glu Arg Asp Arg Val Pro Asp Thr Phe Gly Gly Pro Asp Ser
 260 265 270

Gly Leu Asp Thr Val Val Asp Pro Glu Lys Arg Pro Ser Leu Gln
 275 280 285

<210> 5445

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5445

Ser His Ala Cys Pro Leu Thr Phe Thr Arg Asn Ser Glu Lys Gln Ser
 1 5 10 15

Thr Tyr Phe Ala Thr Gln Trp Ser Ser Ser Leu Asn Thr Phe Ile Gln
 20 25 30

Arg Ser Thr Asn Tyr Asp Pro Pro Val Lys Ser Tyr Leu Ala Leu Val
 35 40 45

Phe Val Asn Lys Val Leu Leu Glu His
 50 55

<210> 5446

<211> 100

<212> PRT

<213> Homo sapiens

<400> 5446

Trp Cys Ser Arg Ala Val Pro Pro Pro Ser Leu Leu Pro Ala Ser Thr
 1 5 10 15

Ser Pro Pro Arg Ser Val Pro Pro Pro Ser Phe Ser Leu Ser Leu Lys
 20 25 30

Ser Val Ser Phe Gly Ser Pro Arg Ala Ser Leu Pro Arg Pro Ser Trp
 35 40 45

Met Arg Pro Pro Ser Pro Lys Pro Ala Cys Phe Ala Val Ser Pro Gly
 50 55 60

Ser Trp Lys Leu Ala Gly Ala Arg Gly Trp Arg Gly His Gly Gly Val
 65 70 75 80

Gly Glu Gly Ser Leu Pro Phe Leu Val Arg Ser Ile Ile Val Asn Gly
 85 90 95

4832

Cys Thr Leu Phe
100

<210> 5447

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5447

Arg Ser Trp Gly Ser Xaa Trp Lys Gln Glu Asp Pro Ile Gln Gln Arg
1 5 10 15

Pro Leu Arg Leu Val Leu His Phe Leu Arg Glu Leu Ser Val Gly Ser
20 25 30

His His Pro Ala His Trp Leu Pro Pro Lys Pro Pro Pro Leu Thr Ser
35 40 45

Ala Asn Leu Leu Phe Gly Asp Pro Leu Ser Asp Pro Leu Cys Leu Pro
50 55 60

Ser Trp Ser Ser Ser Trp Arg Ile Ser Gly Gln Arg Gly Gly Gln Arg
65 70 75 80

Ser Phe Pro Ile Pro Pro Gln Arg Tyr Phe Leu Leu Gly Pro His Thr
85 90 95

Leu Thr Pro Ser Ser Glu Met Asn Thr Phe Leu Leu Leu Leu Leu Arg
100 105 110

Gln Ser Glu Thr Pro Ser
115

<210> 5448

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5448

Leu Leu Val Ser Asp Leu Thr Leu Leu Ser Lys Tyr Ser Ile Ile Ala
1 5 10 15

4833

Arg Phe Thr Glu Phe Arg Ser Leu Lys Val Tyr Ile Leu Phe Pro Tyr
 20 25 30

Val Asp Lys Leu Val Ser Leu Leu Leu Glu Tyr His Lys Val Phe Val
 35 40 45

Lys Ile Thr Gln Val Ile Lys
 50 55

<210> 5449

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5449

His Ala Phe Phe Leu Lys Leu Phe Arg Val Val Glu Ile Ala Ala Cys
 1 5 10 15

His Ser Xaa His Thr Ser Ala Ala Lys Thr Gln Gly Gly His Val Tyr
 20 25 30

Met Trp Gly Gln Cys Arg Gly Gln Ser Val Ile Leu Pro His Leu Thr
 35 40 45

His Phe Ser Cys Thr Asp Asp Val Phe Ala Cys Phe Ala Thr Pro Ala
 50 55 60

Val Ser Trp Arg Leu Leu Ser Val Gly Lys Lys Val Gln Gly His Phe
 65 70 75 80

Thr Gln Gly Gly Met Val Leu Pro Thr Asp Gln Phe Ser Cys Val Phe
 85 90 95

Ala Gly

<210> 5450

<211> 186

<212> PRT

<213> Homo sapiens

4834

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5450

Gly	Gly	Xaa	Asp	Gln	Gly	Gln	Glu	Pro	Gly	Pro	Leu	Glu	Glu	Gln	Gln
1				5				10						15	

Arg	Leu	Ala	His	Leu	Glu	Asp	Lys	Leu	Arg	Leu	Leu	Ala	Gln	Ala	Arg
			20				25						30		

Asp	Glu	Ala	Gln	Gly	Ala	Cys	Leu	Gln	Gln	Lys	Gln	Val	Val	Ala	Glu
		35					40					45			

Ala	Gln	Thr	Arg	Val	Ser	Gln	Leu	Gly	Leu	Gln	Val	Glu	Gly	Leu	Arg
		50				55					60				

Arg	Arg	Leu	Glu	Glu	Leu	Gln	Gln	Glu	Leu	Ser	Leu	Lys	Asp	Gln	Glu
65					70					75					80

Arg	Val	Ala	Glu	Val	Ser	Arg	Val	Arg	Val	Glu	Leu	Gln	Glu	Gln	Asn
				85				90						95	

Gly	Arg	Leu	Gln	Ala	Glu	Leu	Ala	Ala	Gln	Glu	Ala	Leu	Arg	Glu	Lys
			100					105					110		

Ala	Ala	Ala	Leu	Glu	Arg	Gln	Leu	Lys	Val	Met	Ala	Ser	Asp	His	Arg
		115					120					125			

Glu	Ala	Leu	Leu	Asp	Arg	Glu	Ser	Glu	Asn	Ala	Ser	Leu	Arg	Glu	Lys
	130					135					140				

Leu	Arg	Leu	Arg	Glu	Ala	Glu	Ile	Ala	Arg	Ile	Arg	Asp	Glu	Glu	Ala
145					150					155					160

Gln	Arg	Ala	Ser	Phe	Leu	Gln	Asn	Ala	Val	Leu	Ala	Tyr	Val	Gln	Ala
				165					170					175	

Ser	Pro	Val	Arg	Thr	Leu	Ser	Pro	Pro	Lys
		180						185	

<210> 5451

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5451

Pro Met Ala Asn Pro Ile Leu Lys Leu Val Asn Ser Asp Gln Ser Tyr

4835

1 5 10 15
Phe Thr Tyr Pro Thr Gln Ser Gly Pro Lys Gln Ile Ala Gly Ser Ala
 20 25 30
Ser Lys Pro Thr Phe Leu Pro Lys
 35 40

<210> 5452
<211> 69
<212> PRT
<213> Homo sapiens

<400> 5452
Leu Ser Arg Lys Leu Leu Leu Leu Arg Phe Lys Asn Glu Asn Arg Cys
1 5 10 15
Glu Phe Ser Lys Ile Leu Lys Asn Asn Ser Val Lys Asn Ser Gly Ala
 20 25 30
Val Lys Glu Ser Trp Met Glu Leu Glu Val Thr Ile Leu Ser Asp Ile
 35 40 45
Ser Gln Lys Gln Thr Asn Ile Ala Cys Ser Gln Leu Phe Ala Gly Ser
 50 55 60
Lys Ser Gln Asn Asn
65

<210> 5453
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)

4836

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5453

Leu	Glu	Arg	Gly	Trp	Cys	Glu	Ser	Cys	Leu	Thr	Thr	Ala	Pro	Ser	Pro
1				5					10					15	

Pro	Cys	Ala	Ala	Glu	Gly	Thr	Pro	Ala	Ala	His	Arg	Phe	Gln	Glu	Ala
		20						25					30		

Leu	Ser	Asp	Phe	Trp	Leu	Ala	Leu	Glu	Gln	Leu	Arg	Gly	His	Ala	Ala
		35					40					45			

Ile	Asp	Tyr	Thr	Gln	Leu	Gly	Leu	Arg	Phe	Lys	Leu	Gln	Pro	Gly	Arg
	50					55					60				

Cys	Tyr	Thr	Met	Trp	Arg	Arg	His	Ser	Ala	Ser	Trp	Gly	Ser	Gly	Gln
65					70					75					80

Arg	Arg	Gln	Gln	Pro	Lys	Gly	Gly	His	Val	Gln	Val	Ala	Gly	Gly	Ser
				85					90					95	

Leu	Asn	Gly	Leu	Asp	Ser	Ala	Leu	Asp	Gln	Val	Gln	Arg	Arg	Gly	Ser
		100						105					110		

Leu	Pro	Xaa	Gly	Xaa	Ser	Pro	Gly	Arg	Xaa	Xaa	Pro	Ala	Pro	Xaa	Trp
		115					120					125			

Thr

<210> 5454

<211> 84

<212> PRT

<213> Homo sapiens

<400> 5454

Trp	Ile	Pro	Arg	Ala	Ala	Gly	Ile	Arg	His	Glu	Ser	Gly	Asp	Lys	Leu
1				5					10					15	

4837

Lys Leu Asp Gln Thr His Leu Glu Thr Val Ile Pro Ala Pro Gly Lys
 20 25 30
 Arg Ile Leu Val Leu Asn Gly Gly Tyr Arg Gly Asn Glu Gly Thr Leu
 35 40 45
 Glu Ser Ile Asn Glu Lys Thr Phe Ser Ala Thr Ile Val Ile Glu Thr
 50 55 60
 Gly Pro Leu Lys Gly Arg Arg Val Glu Gly Ile Gln Tyr Glu Asp Ile
 65 70 75 80
 Ser Lys Leu Ala

<210> 5455
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 5455
 Ile Phe Leu Leu Phe Ser Thr Phe Pro Gln Ile His Val Ser Glu Val
 1 5 10 15
 Leu Ser Phe Gly His His Tyr Leu Ser Thr Leu Arg Asn Met Pro Ile
 20 25 30
 Asp Glu Val Asn Ile Leu Gly Ile Gln Arg Ile Tyr Gly Asn Val Asp
 35 40 45
 Lys Asp Ile Tyr Gln Asp Lys Ala Leu Glu
 50 55

<210> 5456
 <211> 46
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (23)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

4838

<400> 5456

Glu	Thr	Thr	Lys	Gln	Thr	Gln	Lys	Lys	Glu	His	Asn	Asn	Arg	Asp	Lys
1				5					10					15	
Ile	Lys	Phe	Arg	Gln	Gln	Xaa	Thr	Glu	Xaa	Ile	Leu	Lys	Thr	Arg	Ile
			20					25					30		
Cys	Ser	Leu	Arg	Ile	Phe	Phe	Ile	Ile	Lys	Met	Ile	Phe	Gly		
		35					40					45			

<210> 5457

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5457

Asn	Pro	Phe	Ala	Ser	Gly	Gln	Phe	Gln	Thr	Arg	Ile	Leu	Ala	Cys	Pro
1				5					10					15	
Ala	Ser	His	Gly	Met	Pro	Leu	Pro	Tyr	Cys	Gln	Cys	Asp	Leu	Ser	Glu
			20					25					30		
Thr	Ala	Tyr	Leu	Ile	Leu	Ser	Phe	Pro	Gly	Ala	Ala	Ser	His	Leu	Pro
		35					40					45			
Gln	Asp	Leu	Asn	Phe	Lys	Leu	Tyr	Ser	Ser	Pro	His	Ser	Pro	Gln	Gln
	50					55					60				

<210> 5458

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

4839

<400> 5458

Val Leu Val Ser Leu Pro Val Pro Thr Gln Ile Ala Ser Gln Asn Phe
 1 5 10 15
 Asp Pro Ala Thr Val Ser Val Ala Thr Xaa His Lys Gly Ala Glu Pro
 20 25 30
 Ser Arg Gly Thr Ala Trp Gly Pro Val Ala Lys Arg Leu Gln Gln Glu
 35 40 45
 Leu Met Thr Leu Met Met Xaa Gly Asp Lys Arg Ile Ser Ala Thr Leu
 50 55 60
 Lys Ala Leu Ser Asn Gly His His Ser
 65 70

<210> 5459

<211> 93

<212> PRT

<213> Homo sapiens

<400> 5459

Pro Lys Val Leu Gly Leu Gln Ala Glu Pro Pro Arg Pro Ala Leu Leu
 1 5 10 15
 Leu Leu Leu Arg Phe Glu Asn Arg Cys Leu Asn Ala Pro Asp Ser Ala
 20 25 30
 Leu Leu Thr Gln Arg Phe Pro His Leu Ile Tyr Ser Val Pro Ala Gln
 35 40 45
 Ser Pro Phe Ser Leu Met Pro Arg Ala Gly Phe Ser Leu Pro Ala Pro
 50 55 60
 Arg Phe Trp Ser Pro Pro Ser Val Leu Gly Pro Ser Cys Pro Leu Ser
 65 70 75 80
 Gly Phe Arg Pro Ser Gln His Ser Leu Ala Ser Leu Pro
 85 90

<210> 5460

<211> 50

<212> PRT

<213> Homo sapiens

<400> 5460

Gly Arg Pro Phe Gly Asn Leu Cys Leu Asn Ser Asn Arg Arg Glu Asn

4840

1 5 10 15
 Val Gln Ala Met Gly Leu Leu Pro Ile Ser Leu Cys Phe Ala Ile Pro
 20 25 30
 Trp Asp Lys Gly Thr Thr Ser Gly Ser Gln Ser Pro Asn Gln Tyr His
 35 40 45
 Arg Val
 50

<210> 5461
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 5461
 Glu Pro Ser Ser Val His Lys Lys Pro Ile Glu Ser Arg Ser His Phe
 1 5 10 15
 Ile Arg Trp Gln Val Ser Trp Ala Ser Leu Leu Ala Ser Pro Lys Arg
 20 25 30
 Trp Cys Cys Gln Asp Val Leu Glu Val Ile Met Gly His Thr Glu Ala
 35 40 45
 Leu Ser Leu His Arg Leu Lys Cys His Gln Asn Trp Pro Leu Pro Asn
 50 55 60
 Ile Pro His
 65

<210> 5462
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 5462
 Glu Arg Glu Ile Leu Met Ala Pro Met Ala Ala Arg Ile Thr Ser Leu
 1 5 10 15
 Lys Phe Arg Ala Cys Val Asn Arg Phe Cys Phe Leu Val Ser Glu Arg
 20 25 30
 Phe Ser Tyr Ser Thr Val Leu Ile Cys Phe Ser Lys Pro Ser Asp Leu
 35 40 45

4841

Cys Ile Phe Asn Arg Pro Gln Asn Asn Val Lys Tyr Met Ala
 50 55 60

<210> 5463

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5463

Lys Tyr Gln Ile Ile Leu Trp Asn Val Lys Ala Phe Leu Leu Lys Pro
 1 5 10 15

Ser Ile Cys Phe Ile Val Ile Ser Val Ala Asn Met Asp Phe Ile Phe
 20 25 30

Lys Met Met Phe Tyr Ile Ile Phe Pro Tyr Lys Leu Phe Glu Lys Gln
 35 40 45

Phe Asn Asn Ser Met Ile Val Val Ala Pro Leu Asn
 50 55 60

<210> 5464

<211> 44

<212> PRT

<213> Homo sapiens

<400> 5464

Trp Gln Ser Asn Phe Phe Cys Leu Phe Pro Arg Glu Ser Trp Glu Tyr
 1 5 10 15

Pro Glu Leu Gly Ala Leu Met Ile Leu Phe Gln Leu Trp Cys Leu Lys
 20 25 30

Lys Asn Tyr Lys Ser Ile Leu Asn Gly Leu Ser Ser
 35 40

<210> 5465

<211> 20

<212> PRT

<213> Homo sapiens

<400> 5465

Glu Cys Lys Leu Val Gln Pro Ser Trp Lys Thr Gly Trp Gln Phe Leu
 1 5 10 15

4842

Lys Asp Leu Cys
20

<210> 5466

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5466

Gln Lys Ile Glu Leu Ser Phe Arg Val Ser Lys Lys Val Leu Tyr Ser
1 5 10 15

Cys Cys Thr Pro Gly Ser Trp Gln Gly Gly Asp Phe Cys Pro Arg Glu
20 25 30

Cys Ser Phe Leu Cys Ile Ile Ala Lys Gln Phe Cys Ser Cys Ile Leu
35 40 45

Lys His His Trp Met Asn Phe Phe Pro Leu
50 55

<210> 5467

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4843

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5467

Leu	Leu	Ile	Glu	Thr	Cys	Xaa	Val	Glu	Lys	Leu	Phe	Leu	Ser	Leu	Leu
1				5					10					15	

Ala	Ile	Gln	Val	Ser	Ser	Phe	Met	Lys	Trp	Leu	Phe	Met	Ser	Phe	Ala
		20						25					30		

His	Phe	Tyr	Ile	Xaa	Leu	Phe	Phe	Phe	Phe	Pro	Ala	Xaa	Leu	Xaa	Glu
		35					40					45			

Leu	Tyr	Ile	Leu	Ser	Ile	Leu	Ile	Ile	Tyr	Arg	Lys	Leu	Phe	Gly	Cys
	50					55					60				

His	Tyr	Leu	Leu	Leu	Val	Asn	Val	Phe	Cys	Leu	Trp	Ile	Ser	Phe	Ile
65					70					75					80

Ile Tyr Xaa

<210> 5468

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5468

Gln	Ala	Leu	Thr	Leu	Cys	Lys	Lys	Gly	Gly	Arg	Gly	His	Ser	Trp	Ala
1				5					10					15	

Gly	Gly	Val	Gly	Xaa	Gln	Asp	Gly	Cys	Pro	Ser	Leu	Pro	Ile	Phe	Ser
		20						25					30		

Trp	Leu	Trp	Asp	Gln	Arg	Leu	Val	Leu	Gly	Ile	Trp	Thr	Trp	Arg	Pro
		35					40					45			

Arg	Ala	Ile	Gly	Glu	Gly	Leu	Lys	Pro	Val	Leu	Ser	Ala	Ala	Cys	Cys
	50					55					60				

Glu	Trp	Pro	Ser	Arg	Val	Met	Thr	Glu	Leu	Phe	Trp	Gly	Arg	Arg	
65					70						75				

4844

<210> 5469

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5469

Ala	Arg	Gly	Ala	Gly	Ala	Ala	Gly	Ser	Arg	Cys	Val	Ser	Gly	Glu	Gly
1				5					10					15	

Ala	Pro	Arg	Leu	Gly	Arg	Arg	Arg	Arg	Gln	Arg	Leu	Glu	Glu	Arg	Glu
			20					25					30		

Arg	Arg	Phe	Pro	Cys	Pro	Gly	Pro	Arg	Glu	Gly	Arg	Pro	Thr	Ala	Ala
		35					40					45			

Met	Glu	Gln	Leu	Ser	Asp	Glu	Glu	Ile	Asp	His	Gly	Ala	Glu	Glu	Asp
	50					55					60				

Ser	Asp	Lys	Glu	Asp	Gln	Asp	Leu	Asp	Lys	Met	Phe	Gly	Ala	Trp	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4845

65		70		75		80									
Gly	Glu	Leu	Asp	Lys	Leu	Thr	Gln	Ser	Leu	Asp	Ser	Asp	Lys	Pro	Met
				85					90					95	
Glu	Pro	Val	Lys	Arg	Ser	Pro	Leu	Arg	Gln	Glu	Thr	Asn	Met	Ala	Asn
			100					105					110		
Phe	Ser	Tyr	Arg	Phe	Xaa	Ile	Tyr	Asn	Leu	Asn	Glu	Ala	Leu	Asn	Gln
		115					120					125			
Gly	Glu	Thr	Val	Asp	Leu	Asp	Ala	Leu	Met	Ala	Asp	Leu	Cys	Ser	Ile
		130				135					140				
Glu	Gln	Glu	Leu	Ser	Ser	Ile	Gly	Ser	Gly	Asn	Ser	Lys	Arg	Gln	Ile
145					150					155					160
Thr	Glu	Thr	Lys	Ala	Thr	Gln	Lys	Leu	Xaa	Xaa	Xaa	Xaa	His	Thr	Leu
			165						170					175	
Xaa	His	Gly	Thr	Leu	Lys	Gly	Leu	Ser	Ser	Ser	Ser	Asn	Arg	Ile	Ala
		180						185					190		
Lys	Pro	Ser	His	Ala	Ser	Tyr	Ser	Leu	Asp	Asp	Val	Thr	Ala	Gln	Leu
		195					200					205			
Glu	Gln	Ala	Ser	Leu	Ser	Met	Asp	Glu	Ala	Ala	Gln	Gln	Ser	Val	Leu
		210				215					220				
Glu	Asp	Thr	Lys	Pro	Leu	Val	Thr	Asn	Gln	His	Arg	Arg	Thr	Ala	Val
225					230					235					240
Ser	Arg	His	Ser	Glu											
				245											

<210> 5470

<211> 29

<212> PRT

<213> Homo sapiens

<400> 5470

Ala	Phe	Val	Asp	Cys	Glu	His	Pro	Ser	Tyr	Ile	Gly	Leu	Tyr	Arg	Met
1				5					10					15	
Ala	Leu	Ser	Lys	Asn	Tyr	Ser	Cys	Ile	Thr	Val	Val	Phe			
			20					25							

4846

<210> 5471

<211> 81

<212> PRT

<213> Homo sapiens

<400> 5471

Ala Phe Pro Leu Pro Ser Pro Gly Leu Thr Pro His Pro Ile Pro Gln
 1 5 10 15

Lys Val Arg Arg Ala Gly Cys Val Asp Gly Ile Pro Glu Asn Glu Pro
 20 25 30

Val Glu Ser Ile Trp Pro Trp His Val Asn Ser Ser Leu Phe Pro Ala
 35 40 45

Val Ile Thr Thr Leu Phe Phe Pro Gln Gly Leu Asn Cys Thr Val Lys
 50 55 60

Asn Ser Lys Ser Ser Phe Ser Val Leu Leu Leu Val Ala Phe Leu Ile
 65 70 75 80

Lys

<210> 5472

<211> 53

<212> PRT

<213> Homo sapiens

<400> 5472

Ser Cys Ser Phe Gly Val Cys Glu Gln Thr Gln Asp Ile Ile Ile Lys
 1 5 10 15

His His Pro Ser Ile Lys Gly Leu Phe Tyr Asn Met Cys Cys Glu Ile
 20 25 30

Asn Leu Ser Gly Lys Val Trp Cys Asn Glu Leu Phe His Ser Met Val
 35 40 45

Ile Asp Ala Val Lys
 50

<210> 5473

<211> 105

<212> PRT

<213> Homo sapiens

4847

<400> 5473

Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser
 1 5 10 15
 Val Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Cys Phe Phe Phe
 20 25 30
 Phe Phe Phe Val Val His Asn His Leu Phe Tyr Leu Lys Thr Cys Leu
 35 40 45
 His Cys Ile Glu His Gln His Arg Cys Asp Gln Glu Thr His Ser Pro
 50 55 60
 Val Pro Ala Ala Leu Gly Pro Val Tyr Asp Leu Gly Trp Thr Val Ile
 65 70 75 80
 Phe His Ser Glu Gly Gly Lys Asp Arg Lys Glu Lys Met Ala Ile Ile
 85 90 95
 Pro Thr Pro Val Gln Glu Ser Glu Gln
 100 105

<210> 5474

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5474

Gly Phe Ile Ile His Cys Gln Met Leu Val Pro Ile Lys Gln Cys Cys

4848

1	5	10	15
Leu Pro Thr	Pro Thr Phe Cys Val	Xaa Gly Lys Phe Trp	Lys Ser Arg
	20	25	30
Gly Xaa His	Ala Lys Arg Leu Ser Thr	Gly Leu Phe Leu Val	Ser Ala
	35	40	45
Leu Xaa Xaa	Leu Cys Glu Glu Val Ala	Ile Tyr Gly Phe Trp	Pro Phe
	50	55	60
Ser Val Asn	Met His Glu Gln Pro Ile	Ser His His Tyr Tyr	Asp Asn
	65	70	75
Val Leu Pro	Phe Ser Gly Phe His Ala	Met Pro Glu Glu Phe	Leu Gln
	85	90	95
Leu Trp Tyr	Leu His Lys Ile Gly Ala	Leu Arg Met Gln Leu	Asp Pro
	100	105	110
Cys Glu Asp	Thr Ser Leu Gln Pro Thr	Ser	
	115	120	

<210> 5475

<211> 237

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (237)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5475

Tyr Gln Ser	Ile Ala Leu Tyr Phe	Glu Gly Glu Lys Arg	Tyr Leu Gln
1	5	10	15

Ala Gly Lys	Phe Phe Leu Leu Cys	Gly Gln Tyr Ser Arg	Ala Leu Lys
	20	25	30

His Phe Leu	Lys Cys Pro Ser Ser	Glu Asp Asn Val Ala	Ile Glu Met
	35	40	45

Ala Ile Glu	Thr Val Gly Gln Ala	Lys Asp Glu Leu Leu	Thr Asn Gln
-------------	---------------------	---------------------	-------------

4849

50	55	60
Leu Ile Asp His Leu Leu Gly Glu Asn Asp Gly Met Pro Lys Asp Ala		
65	70	75 80
Lys Tyr Leu Phe Arg Leu Tyr Met Ala Leu Lys Gln Tyr Arg Glu Ala		
	85	90 95
Ala Gln Thr Ala Ile Ile Ile Ala Arg Glu Glu Gln Xaa Ala Gly Asn		
	100	105 110
Tyr Arg Asn Ala His Asp Val Leu Phe Ser Met Tyr Ala Glu Leu Lys		
	115	120 125
Ser Gln Lys Ile Lys Ile Pro Ser Glu Met Ala Thr Asn Leu Met Ile		
	130	135 140
Leu His Ser Tyr Ile Leu Val Lys Ile His Val Lys Asn Gly Asp His		
	145	150 155 160
Met Lys Gly Ala Arg Met Leu Ile Arg Val Ala Asn Asn Ile Ser Lys		
	165	170 175
Phe Pro Ser His Ile Val Pro Ile Leu Thr Ser Thr Val Ile Glu Cys		
	180	185 190
His Arg Ala Gly Leu Lys Asn Ser Ala Phe Ser Phe Ala Ala Met Leu		
	195	200 205
Met Arg Pro Glu Tyr Arg Ser Lys Ile Asp Ala Lys Tyr Lys Lys Lys		
	210	215 220
Ile Glu Gly Met Val Gln Glu Thr Arg Tyr Ile Leu Xaa		
	225	230 235

<210> 5476

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5476

Gly Gly Ala Gly Ala Arg Gly Gly Gly Ala Leu Trp Val Thr Glu Gly
1 5 10 15

4850

Val Lys Xaa Pro Gly Pro Val Ser Gly Gln Cys Arg Lys Ser Gln Pro
 20 25 30
 His Ala Cys Gly Glu Ile Pro Cys Arg Ala Pro Pro Thr Met Asp Thr
 35 40 45
 Ser Gly Pro Leu Arg Ser Ser Lys Ala Val Ser Ser Phe Pro Leu Gln
 50 55 60
 Gln Arg Gly Val Pro Ser Ser Val Lys Gln Pro Phe Leu Phe Leu Glu
 65 70 75 80
 Ser Tyr Lys Trp Arg Pro Lys Ser Val Pro Met Leu Arg Gln Gly Pro
 85 90 95
 Gly Cys Ser Phe Leu Ser Gly Asn Arg Leu Glu Leu Phe Leu Trp Asp
 100 105 110
 Met Pro Pro Arg Pro Ala Leu Lys Gly Cys Ser Ser Leu Thr Thr Trp
 115 120 125
 Asn Gln Thr Pro Pro Ser Phe Val Tyr Lys Gly Asn Lys Glu
 130 135 140

<210> 5477

<211> 41

<212> PRT

<213> Homo sapiens

<400> 5477

Gly Arg Lys Leu Pro Glu Glu Glu Gly Gly Lys Glu Ile Lys Asn Thr
 1 5 10 15
 Leu Lys Val Cys Gln Lys Lys Glu Leu Tyr Phe Leu Lys His Ser Arg
 20 25 30
 Lys Met Met Ser Phe Gln Leu Leu Ile
 35 40

<210> 5478

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5478

Lys Ser Ile Val Val Leu Val Leu Leu Ser Trp Ile Ile Val Gln Lys
 1 5 10 15

4851

Glu Val Gln Pro Pro Asp Asn His Ile Phe Thr Val Met Asn Gly Lys
 20 25 30
 Thr Lys Cys Arg Ala Gln Leu Thr Gln Arg Lys Lys Gly Ser Lys Asp
 35 40 45
 Lys Leu Trp His Asn Leu Ala Ala Lys Phe Leu Pro Ser Thr Asp Phe
 50 55 60

<210> 5479
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 5479
 Cys Ile Ile Leu Arg Gly Phe Phe Arg Ala Val Leu Thr Glu Leu Ser
 1 5 10 15
 Ile Asn Leu His Ser Ser Gly Arg Leu Leu Lys Leu Ala Gly His Asn
 20 25 30
 Glu Ile Gly Lys Ser Arg Val Leu Lys Ser Ile Ala Trp Pro Ser Ala
 35 40 45

<210> 5480
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 5480
 Lys Leu Leu Cys Pro His Leu Arg Glu Glu Gly Ser Ser Asn Asn Thr
 1 5 10 15
 Thr Met Cys Lys Ala Gly Ser Glu Ile Leu Leu Ser Pro Leu Pro Ser
 20 25 30
 Cys Asn Pro Ser Leu Pro His Leu Ser Cys Met Cys Ile Thr Met Leu
 35 40 45
 Phe Cys Phe Leu Met Lys Met Arg Leu Cys Ile Leu Phe Asp Asn Leu

4852

50

55

60

Phe Gln Ile Lys

65

<210> 5481

<211> 101

<212> PRT

<213> Homo sapiens

<400> 5481

Pro	Leu	Ser	Thr	Pro	His	Pro	Leu	Arg	Arg	Gly	Pro	Arg	Ser	Tyr	Pro
1				5					10					15	

Thr	Val	His	Leu	Pro	Arg	Gly	Cys	Ser	Glu	Leu	Ala	Met	Ala	Ala	Thr
			20					25					30		

Ala	Ala	Thr	Ala	Ala	Asp	Pro	Arg	Ser	Gly	Ser	Leu	Arg	Arg	Gly	Val
		35					40					45			

Ala	Ala	Leu	Pro	Arg	Pro	Pro	Arg	Gln	Pro	Glu	Gln	Leu	Gln	Ser	Thr
		50				55					60				

Gly	Leu	Gly	Ser	Glu	Thr	Phe	Lys	Val	Lys	Gln	Ala	Glu	Trp	Gly	Asp
65					70					75					80

Arg	Thr	Ile	Ser	Pro	Pro	Pro	Gly	Ala	Pro	Gly	Leu	Ser	Leu	Gly	Gly
				85					90					95	

Pro	Pro	Leu	Ala	Pro
				100

<210> 5482

<211> 87

<212> PRT

<213> Homo sapiens

<400> 5482

Arg	Ile	His	Glu	Lys	Tyr	Glu	Ile	Trp	Phe	His	Pro	Val	Arg	His	Phe
1				5					10					15	

Asn	Arg	Glu	Asp	Gln	Asn	Val	Thr	Trp	Gln	Leu	Gly	Asn	Asn	Leu	Thr
			20					25					30		

Ser	Leu	Ala	Val	Gly	Leu	Asn	Phe	Leu	Ile	Ile	Asp	Pro	Gly	Ile	Phe
		35					40					45			

4853

[illegible]

<210> 5483

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5483

Thr Pro Ile Met Xaa Asp Glu Phe Val Met Arg Asp Asn Leu Glu Val
1 5 10 15

Val Phe Thr His Tyr Ala Thr Ile Lys Gly Ser Thr Val Glu Arg Ile
20 25 30

Leu Thr His Ser Val Thr Asn Gly Thr His Arg Gln His Glu Phe Ala
35 40 45

Pro Tyr Met Thr Glu Val Ile Gln Gly Phe Leu
50 55

<210> 5484

<211> 240

<212> PRT

<213> Homo sapiens

<400> 5484

Val	Thr	Thr	Lys	Phe	Val	Arg	Thr	Ser	Thr	Asn	Lys	Val	Lys	Cys	Pro
1				5					10					15	

Val Phe Val Val Arg His Ser Met Glu Asn Leu Phe Glu Lys Asn Lys
20 25 30

Ile Arg Ala Ser Ile Ser Tyr Lys Trp Thr Pro Glu Gly Arg Arg Leu
35 40 45

4854

Val Thr Gly Ala Ser Ser Gly Glu Phe Thr Leu Trp Asn Gly Leu Thr
 50 55 60
 Phe Asn Phe Glu Thr Ile Leu Gln Ala His Asp Ser Pro Val Arg Ala
 65 70 75 80
 Met Thr Trp Ser His Asn Asp Met Trp Met Leu Thr Ala Asp His Gly
 85 90 95
 Gly Tyr Val Lys Tyr Trp Gln Ser Asn Met Asn Asn Val Lys Met Phe
 100 105 110
 Gln Ala His Lys Glu Ala Ile Arg Glu Ala Arg Phe Ile His Asn Ile
 115 120 125
 Pro Phe Ser Val Val Pro Ile Val Met Val Lys Leu Phe Ser Lys Cys
 130 135 140
 Ile Leu Gly Ala Glu Met His Gly Leu Cys Gln Phe Leu Gly Asn Phe
 145 150 155 160
 Leu His Pro Ile Asn Thr Ile Phe Phe Phe Val Phe Thr His Ser Pro
 165 170 175
 Phe Cys Trp His Leu Ser Glu Val Val Leu Ser Arg Tyr Gln Pro Leu
 180 185 190
 Gln Tyr Val Arg Asp Val Leu Ser Ala Ala Phe Cys Thr Gly Phe Leu
 195 200 205
 Phe Ser Phe Met Ile Asn Asn Val Tyr Thr Leu Phe Leu Phe Ile Ile
 210 215 220
 Tyr Cys Val Arg Gln Glu Tyr Phe Ile Pro Asn Lys Glu Phe Ser Leu
 225 230 235 240

<210> 5485

<211> 47

<212> PRT

<213> Homo sapiens

<400> 5485

Asn Glu Ala Phe Ile Tyr Val Phe Arg Cys His Cys Ser Leu Ser Glu
 1 5 10 15

Leu Ala Val His Ile Ser Leu Pro Leu Val Leu Ser Thr Asp Phe Phe

4855

20 25 30

Leu Lys Lys Arg Gly Thr Val Tyr His Ser Ser Thr Val Leu Leu

35 40 45

<210> 5486

<211> 72

<212> PRT

<213> Homo sapiens

<400> 5486

Tyr Glu Ala Lys Thr Lys Ser Trp Lys Ser Glu Gln Val Gln Trp Phe

1 5 10 15

Gly Arg Gly Asn Glu Glu Gln Arg Arg Cys Gln Pro Leu Leu Gln Thr

20 25 30

Leu Trp Tyr His Trp Phe Gly Arg Lys Asn Asn His His Leu Arg Gly

35 40 45

Pro Val Gly Lys Pro Cys Pro His Gly Lys Ala Ile Phe Phe Arg Leu

50 55 60

His Phe Ser Trp Tyr Tyr Val Tyr

65 70

<210> 5487

<211> 75

<212> PRT

<213> Homo sapiens

<400> 5487

Leu Thr Cys Tyr Val Thr Val Ile Tyr Leu Ser Ile Ser Asn Pro Lys

1 5 10 15

Ala Cys Gln Lys Ala Phe Phe Arg Glu Asn His Phe Thr Phe Val Val

20 25 30

Lys Leu Leu Ile Ala Thr Leu Lys Asn Ile His Val Cys Ile His Arg

35 40 45

Asn Ile Phe Ser Gln Tyr Leu Tyr Asp Ser Leu Thr Val Ile Val Leu

50 55 60

Ser Glu Leu Leu Cys Ala Ser Asp Lys Asn Lys

65 70 75

4856

<210> 5488

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5488

Gly	Pro	Arg	Arg	Thr	Leu	Ala	Ala	Leu	Pro	Leu	Ser	Arg	Val	Ser	Ala
1				5				10					15		

Gly	Ser	Gly	Ser	Ala	Ser	Pro	Gly	Gln	Leu	Arg	Glu	Ser	Leu	Ala	Arg
			20					25					30		

Ile	Pro	Ala	Ser	Thr	Leu	Phe	Leu	Ala	Ala	Lys	Val	Thr	Val	Pro	Phe
			35				40					45			

Ala	Pro	Ala	Leu	Ser	Asp	Pro	Pro	Arg	Ile	Pro	Arg	His	Arg	Glu	Thr
			50			55					60				

Arg	Lys	Gly	Xaa	Gly	Ser	Gly	Gly	Gly	Pro	Gly	Arg	Ile	Ala	Leu	Gln
65					70					75					80

Ala	Ala	Leu	Arg	Gly	Pro	Ala	Pro	Ala	Thr	Ala	Leu	Thr	Ser	Glu	Arg
				85					90					95	

Arg	Asn	Trp	Gly	Glu	Xaa	Phe	Lys	Ser	Leu	Arg	Xaa	Arg	Cys
			100					105					110

<210> 5489

<211> 122

<212> PRT

<213> Homo sapiens

4857

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5489
 Ser Gly Arg Gly Ser Pro Gln Trp Thr Arg Leu Pro His Pro Ala Glu
 1 5 10 15
 Val Gly Gly Gly His Glu Glu Met Gly Cys Arg Leu Leu Ser Glu Leu
 20 25 30
 Pro Ser Thr Asn Gly Val Gly Val Xaa Asp Leu Pro Arg His Xaa Phe
 35 40 45
 Phe Thr Phe Gly Lys Met Glu Gly Asp Gly Gly Gly Ile Pro Cys Ser
 50 55 60
 Leu Cys Cys Ala Asp Thr Leu Glu Lys Xaa Leu Pro Ser Val Glu Gln
 65 70 75 80
 Asn Pro Leu Trp Arg Asn Ala Ala Val Leu Asp Leu Glu Ala Glu Gly
 85 90 95
 Val Ser Ile Leu Gly Ile Cys Leu Pro Leu Pro Ile Trp Met Pro His
 100 105 110
 Leu Ala Val Ser Leu Met Val Ile Leu Phe
 115 120

<210> 5490
 <211> 97
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

4858

<400> 5490

```

Arg Leu Phe Ser Leu Xaa Gly Glu Cys His Lys Leu Leu Phe Cys Ile
 1              5              10              15

Ser Thr Ala Cys Gln Ala Leu Ser Ala Ser Ser Asn Leu Ala Leu Thr
      20              25              30

Ala Thr Gly Ser Arg Cys Pro Ile Phe Gln Ser Lys Asp Arg Gly Val
      35              40              45

Lys Phe Lys Tyr Arg Phe Ser Asp Ile Asn Leu Cys Asp Asp Leu Ile
      50              55              60

Glu Ala Gly Phe Ser Ser Ile Thr Val Leu Val Pro Ser Leu Leu Tyr
      65              70              75              80

Gly Asn Glu Asn Lys Glu Thr Tyr Phe Leu Ala Cys Leu Lys Lys Lys
      85              90              95

Lys

```

<210> 5491

<211> 294

<212> PRT

<213> Homo sapiens

<400> 5491

```

Thr Tyr Thr Ile His Ala Asp Gly Thr Gly Ser Asn Met Asn Ile Asn
 1              5              10              15

Asp Gly Gly Arg Arg Arg Phe Glu Asp Asn Glu His Thr Leu Arg Ile
      20              25              30

Tyr Pro Gly Ala Ile Ser Glu Gly Thr Ile Tyr Cys Pro Ile Pro Ala
      35              40              45

Arg Lys Asn Ser Thr Ala Ala Glu Val Ile Glu Ser Leu Ile Asn Lys
      50              55              60

Leu His Leu Asp Lys Thr Lys Cys Tyr Val Leu Ala Glu Val Lys Glu
      65              70              75              80

Phe Gly Gly Glu Glu Trp Ile Leu Asn Pro Thr Asp Cys Pro Val Gln
      85              90              95

Arg Met Met Leu Trp Pro Arg Met Ala Leu Glu Asn Arg Leu Ser Gly
      100              105              110

```


4859

Glu Asp Tyr Arg Phe Leu Leu Arg Glu Lys Asn Leu Asp Gly Ser Ile
 115 120 125
 His Tyr Gly Ser Leu Gln Ser Trp Leu Arg Val Thr Glu Glu Arg Arg
 130 135 140
 Arg Met Met Glu Arg Gly Phe Leu Pro Gln Pro Gln Gln Lys Asp Phe
 145 150 155 160
 Asp Asp Leu Cys Ser Leu Pro Asp Leu Asn Glu Lys Thr Leu Leu Glu
 165 170 175
 Asn Leu Arg Asn Arg Phe Lys His Glu Lys Ile Tyr Thr Tyr Val Gly
 180 185 190
 Ser Ile Leu Ile Val Ile Asn Pro Phe Lys Phe Leu Pro Ile Tyr Asn
 195 200 205
 Pro Lys Tyr Val Lys Met Tyr Asp Asn His Gln Leu Gly Lys Leu Glu
 210 215 220
 Pro His Ile Tyr Ala Val Ala Asp Val Ala Tyr His Ala Met Leu Gln
 225 230 235 240
 Arg Lys Lys Asn Gln Cys Ile Val Ile Ser Gly Glu Ser Gly Ser Gly
 245 250 255
 Lys Thr Gln Ser Thr Asn Phe Leu Ile His His Leu Thr Ala Leu Ser
 260 265 270
 Gln Lys Gly Phe Ala Ser Gly Val Glu Gln Ile Ile Leu Gly Ala Gly
 275 280 285
 Pro Val Leu Glu Ala Val
 290

<210> 5492

<211> 85

<212> PRT

<213> Homo sapiens

<400> 5492

Pro Tyr Leu Arg Arg Arg Asp Thr Gln Asp Lys Leu Gln Val Val Ser
 1 5 10 15
 Arg Phe Thr Phe Tyr Phe Glu Asp Pro Leu Leu Pro Gln Val Pro Asp
 20 25 30

4860

Leu Glu Asn Glu Pro Pro Leu Ser Gly Leu Ala Ser Pro Gln Pro Arg
35 40 45

His Arg Leu Ala Gln Gly Ser Ser Ser Trp Leu Ser Trp Asn Leu His
50 55 60

Phe Leu Thr Thr Arg Lys Arg Ser Pro Glu Leu Thr Lys Asn Asn Ile
65 70 75 80

Leu Leu Thr Trp Glu
85

<210> 5493

<211> 274

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4861

<222> (245)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5493

His	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro
1				5					10					15	

Gly	Ser	Thr	His	Ala	Ser	Gly	Pro	Thr	Ser	Pro	Pro	Ala	Arg	Met	Ala
			20					25					30		

Pro	Pro	Gly	Pro	Ala	Ser	Ala	Leu	Ser	Thr	Ser	Ala	Glu	Pro	Leu	Ser
		35					40					45			

Arg	Ser	Xaa	Phe	Arg	Lys	Phe	Leu	Leu	Met	Leu	Cys	Ser	Leu	Leu	Thr
	50					55					60				

Ser	Leu	Tyr	Val	Phe	Tyr	Cys	Leu	Ala	Glu	Arg	Cys	Gln	Thr	Leu	Ser
65					70					75					80

Gly	Pro	Val	Val	Gly	Leu	Ser	Gly	Gly	Gly	Glu	Glu	Ala	Gly	Ala	Pro
				85					90					95	

Gly	Gly	Gly	Val	Leu	Ala	Gly	Pro	Arg	Glu	Leu	Ala	Val	Trp	Pro	Ala
			100					105					110		

Ala	Ala	Gln	Arg	Lys	Arg	Leu	Leu	Gln	Leu	Pro	Gln	Trp	Arg	Xaa	Arg
		115					120					125			

Arg	Xaa	Pro	Ala	Pro	Arg	Xaa	Asp	Gly	Glu	Glu	Ala	Ala	Trp	Glu	Glu
	130					135					140				

Glu	Ser	Pro	Gly	Leu	Ser	Gly	Val	Arg	Ala	Ala	Pro	Gly	Pro	Glu	Ala
145					150					155					160

Pro	Trp	Pro	Arg	Pro	Arg	Arg	Gly	Pro	Trp	Arg	Cys	Ser	Trp	Thr	Lys
				165					170					175	

Ala	Ala	Ser	Ser	Cys	Arg	Ser	Ile	Ile	Ile	Gly	Xaa	Lys	Lys	Gly	Gly
			180					185					190		

Thr	Arg	Ala	Leu	Leu	Glu	Phe	Leu	Arg	Val	His	Pro	Asp	Val	Arg	Ala
		195					200					205			

Val	Gly	Ala	Glu	Pro	His	Phe	Phe	Asp	Arg	Ser	Tyr	Asp	Lys	Gly	Leu
	210					215					220				

4862

Ala Trp Tyr Arg Asp Leu Xaa Pro Arg Thr Leu Glu Gly Gln Ile Thr
 225 230 235 240

Met Glu Lys Lys Xaa Ser Tyr Ser Ser Ser Gly Lys Pro Pro Arg Ala
 245 250 255

Ser Trp Ala Cys Ser Lys Asp Asn Lys Leu Ile Arg Trp Leu Xaa Gly
 260 265 270

Asn Arg

<210> 5494

<211> 66

<212> PRT

<213> Homo sapiens

<400> 5494

Gly Val Gly His Ser Glu Leu Thr Ser Met Phe Asn Thr Ile Thr Arg
 1 5 10 15

Asp Thr Glu Thr Ala Asn Gln Asp Lys Lys Leu Thr Thr Ser Arg Cys
 20 25 30

Arg Gln Leu Phe Pro Arg Cys Gln Asn Lys Thr Ser Tyr His Asp Glu
 35 40 45

Ala Pro Thr Pro Leu Asn Leu Pro Ser Ser Cys Leu Pro Leu Ser Leu
 50 55 60

Ala Gly
 65

<210> 5495

<211> 117

<212> PRT

<213> Homo sapiens

<400> 5495

Leu Asp Arg Ile Phe Ser Gly Gly Ser Leu Val Asp Phe Glu Gly Lys
 1 5 10 15

Thr Phe Trp Val Tyr His Val Leu Ile Leu Glu Thr Gly Ser Asp Glu
 20 25 30

Ser Ser Pro Val Val Pro Leu Ser Asn Ser Ile Lys Val Gly Ile Ser
 35 40 45

4863

Lys Glu His Leu Ile Gln Gly Ala Gly Ala Asp Phe Ile Asp Ser Arg
 50 55 60
 Glu Thr Cys Phe Ser Ala Tyr Ser Ser Leu Pro Ser Gly Ala Ser Leu
 65 70 75 80
 Leu Thr Ile Thr Ala Ser Leu Arg Cys Arg Trp Val Phe Leu Lys Gln
 85 90 95
 Glu Thr Val Ser Pro Leu Leu Pro Gln Leu Leu Gly Val Gly Ile Ser
 100 105 110
 Asp Thr Gly Asp Gly
 115

<210> 5496

<211> 171

<212> PRT

<213> Homo sapiens

<400> 5496

Ile Thr Met Asp Trp Gln Ser Ile Lys Ile Gln Glu Leu Met Ser Asp
 1 5 10 15
 Asp Gln Arg Glu Ala Gly Arg Ile Pro Arg Thr Ile Glu Cys Glu Leu
 20 25 30
 Val His Asp Leu Val Asp Ser Cys Val Pro Gly Asp Thr Val Thr Ile
 35 40 45
 Thr Gly Ile Val Lys Val Ser Asn Ala Glu Glu Gly Ser Arg Asn Lys
 50 55 60
 Asn Asp Lys Cys Met Phe Leu Leu Tyr Ile Glu Ala Asn Ser Ile Ser
 65 70 75 80
 Asn Ser Lys Gly Gln Lys Thr Lys Ser Ser Glu Asp Gly Cys Lys His
 85 90 95
 Gly Met Leu Met Glu Phe Ser Leu Lys Asp Leu Tyr Ala Ile Gln Glu
 100 105 110
 Ile Gln Ala Glu Glu Asn Leu Phe Lys Leu Ile Val Asn Ser Leu Cys
 115 120 125
 Pro Val Ile Phe Gly His Glu Leu Val Lys Ala Gly Leu Ala Leu Ala
 130 135 140

4864

Leu Phe Gly Gly Ser Gln Lys Tyr Ala Asp Asp Lys Asn Arg Ile Pro
145 150 155 160

Ile Arg Gly Asp Pro His Ile Leu Val Gly Phe
165 170

<210> 5497

<211> 24

<212> PRT

<213> Homo sapiens

<400> 5497

Ser Val Lys Cys Arg Leu Ser Ser Phe Ile Met Asn Val Ile Val Arg
1 5 10 15

Asn Thr Leu Thr Phe Ser Asn Phe
20

<210> 5498

<211> 74

<212> PRT

<213> Homo sapiens

<400> 5498

Gly Phe Ser Gln Arg Arg Val Cys Ser Gly Arg Cys Cys Gly Gln Gly
1 5 10 15

Ser Arg Gln Arg Pro Leu Ser Ser Arg Leu Ala Pro Ala Leu Arg Gly
20 25 30

His Gly Gly Ala Glu Ala Thr Arg Ala Gly Pro Glu Pro Gly Gly Pro
35 40 45

Trp Leu Arg Phe Ser Cys Thr Glu Lys Leu Asn Pro Ala Arg Ser Asp
50 55 60

Val His Phe Met Val Pro Thr Pro Leu Gly
65 70

<210> 5499

<211> 153

<212> PRT

<213> Homo sapiens

<220>

4865

<221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (141)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5499
 Thr Cys Tyr Ala Thr Pro Cys Leu Val Trp Met Gly Arg Trp Pro Pro
 1 5 10 15
 Ala Val Thr Leu Thr Cys Arg Pro Thr Ala Thr Val Pro Trp Ser Pro
 20 25 30
 Gly Thr Thr Ser Ala Glu Thr Thr Ala Leu Ala Arg Ser Leu Cys Ser
 35 40 45
 Ala Gly Thr Gln Pro Ala Pro Ser Thr Thr Ser Leu Pro Ser Trp Arg
 50 55 60
 Ser Ala Ala Pro Leu Ala Trp Pro Leu Gln Leu Ser Gly Gln Trp Trp
 65 70 75 80
 Ser Ala Gly Ala Cys Phe Leu Asp Leu Pro Ser Leu Ala Leu Cys Trp
 85 90 95
 Pro Gly Asp Ser Gly Asp Ala Ser Gly Gln Lys Pro Gly Ala Glu Gln
 100 105 110
 Thr Leu Gly Cys Ser Gly Trp Ala Gln Ala Xaa Phe Arg Leu Ala Ala
 115 120 125
 Thr Val Arg Xaa Pro Xaa Arg Pro Gln Ala Pro Ser Xaa Arg Ala Phe
 130 135 140
 Leu Pro Leu His Phe Pro Thr Ile Glu
 145 150

4866

<210> 5500

<211> 142

<212> PRT

<213> Homo sapiens

<400> 5500

Trp	Thr	Trp	Ser	Thr	Pro	Ala	Ser	Ala	Arg	Ser	Ser	Gly	Thr	Thr	Thr
1				5					10					15	

Trp	Pro	Pro	Ala	Pro	Ala	Ala	Ala	Leu	His	Leu	Arg	Leu	Arg	Gly	Val
			20					25					30		

Gln	Arg	Arg	Arg	Ile	Leu	Thr	Met	Glu	Pro	Val	Leu	Gly	Gly	Thr	Pro
		35					40					45			

Tyr	Leu	Asp	Lys	Phe	Val	Val	Ser	Ser	Ser	Arg	Gln	Gly	Gln	Gly	Ser
	50					55					60				

Gly	Gln	Met	Leu	Trp	Glu	Cys	Leu	Arg	Arg	Asp	Leu	Gln	Thr	Leu	Phe
65					70					75					80

Trp	Arg	Ser	Arg	Val	Thr	Asn	Pro	Ile	Asn	Pro	Trp	Tyr	Phe	Lys	His
				85					90					95	

Ser	Asp	Gly	Ser	Phe	Ser	Asn	Lys	Gln	Trp	Ile	Phe	Phe	Trp	Phe	Gly
			100					105					110		

Leu	Ala	Asp	Ile	Arg	Asp	Ser	Tyr	Glu	Leu	Val	Asn	His	Ala	Lys	Gly
		115					120					125			

Leu	Pro	Asp	Ser	Phe	His	Lys	Pro	Ala	Ser	Asp	Pro	Gly	Ser
	130					135					140		

<210> 5501

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

4867

<400> 5501

Gln Arg Glu Asn Arg Pro Cys Leu Lys Glu Arg Phe Leu Val Tyr Ala
 1 5 10 15
 Ser Gly Leu Trp Ala Gly Xaa Ala Thr Ile Pro Tyr Xaa Arg Gln Ser
 20 25 30
 Ser Ala Pro Ala Ala Lys Leu Ala Cys Phe Thr Gly Lys Leu Leu Glu
 35 40 45
 Glu Trp Leu Leu Met Arg Phe Gln Asn Glu Val Leu Ala Asn Thr Ala
 50 55 60
 His Gly His Pro Gly Phe Ser Gln Trp Leu Pro Phe Leu Leu Ala Ser
 65 70 75 80
 Leu Asn Arg Gly Glu Ser Leu Thr Ser Leu Leu Leu Ser Lys Pro Phe
 85 90 95
 Thr Leu Asn Gly
 100

<210> 5502

<211> 165

<212> PRT

<213> Homo sapiens

<400> 5502

Lys Trp Asp Glu Pro Trp Tyr Asn Gln Lys Thr Glu His Gln Arg Asn
 1 5 10 15
 Ser Ser Lys Ile Leu Arg Phe Ile Ser Asp Phe Leu Ala Phe Leu Val
 20 25 30
 Leu Tyr Asn Phe Ile Ile Pro Ile Ser Leu Tyr Val Thr Val Glu Met
 35 40 45
 Gln Lys Phe Leu Gly Ser Phe Phe Ile Gly Trp Asp Leu Asp Leu Tyr
 50 55 60
 His Glu Glu Ser Asp Gln Lys Ala Gln Val Asn Thr Ser Asp Leu Asn
 65 70 75 80
 Glu Glu Leu Gly Gln Val Glu Tyr Val Phe Thr Asp Lys Thr Gly Thr
 85 90 95
 Leu Thr Glu Asn Glu Met Gln Phe Arg Glu Cys Ser Ile Asn Gly Met
 100 105 110

4868

Lys Tyr Gln Glu Ile Asn Gly Arg Leu Val Pro Glu Asp Gln His Gln
 115 120 125

Thr Leu Gln Lys Glu Thr Tyr Leu Ile Leu Val Val Tyr Pro Ile Leu
 130 135 140

Thr Thr Tyr Pro Ile Leu Gln Pro Val Pro Leu Ser Glu Pro Val Leu
 145 150 155 160

Lys Met Lys Leu Asn
 165

<210> 5503

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5503

Arg Leu Pro Ser Glu Val Ser Asp His Ser Leu Leu Leu Lys Gln Leu
 1 5 10 15

Leu Leu Phe Leu Tyr Ser Ile Glu His Pro Gly Ile Asp Ile Ile Leu
 20 25 30

Ser Ile Ser Ile Ser Pro Leu Leu Val Tyr Leu Ile Ile Asn Pro Val
 35 40 45

Ser Arg Ala Val Phe Ile
 50

<210> 5504

<211> 220

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4869

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5504

His	Glu	Gly	Lys	Cys	Phe	Cys	Arg	Lys	Ser	Thr	Leu	Thr	Thr	His	Leu
1				5					10					15	
Arg	Thr	His	Thr	Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Asn	Glu	Cys	Gly	Lys
			20					25					30		
Phe	Phe	Ser	Arg	Leu	Ser	Tyr	Leu	Thr	Val	His	Tyr	Arg	Thr	His	Ser
		35					40					45			
Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Asn	Xaa	Cys	Gly	Lys	Thr	Phe	Tyr	Leu
	50					55					60				
Asn	Ser	Ala	Leu	Met	Arg	His	Gln	Arg	Val	His	Thr	Gly	Glu	Lys	Pro
65					70					75					80
Tyr	Glu	Cys	Asn	Glu	Cys	Gly	Lys	Leu	Phe	Ser	Gln	Leu	Ser	Tyr	Leu
			85						90					95	
Thr	Ile	His	His	Arg	Thr	His	Ser	Gly	Val	Lys	Pro	Tyr	Glu	Cys	Ser
			100					105					110		
Glu	Cys	Gly	Lys	Thr	Phe	Tyr	Gln	Asn	Ser	Ala	Leu	Cys	Arg	His	Arg
		115					120					125			
Arg	Ile	His	Lys	Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Tyr	Ile	Cys	Gly	Lys
	130					135					140				
Phe	Phe	Ser	Gln	Met	Ser	Tyr	Leu	Thr	Ile	His	His	Arg	Ile	His	Ser
145					150					155					160
Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Ser	Glu	Cys	Gly	Lys	Thr	Phe	Xaa	Gln
			165						170					175	
Asn	Xaa	Ala	Leu	Asn	Arg	His	Gln	Arg	Thr	His	Thr	Gly	Glu	Lys	Ala
			180					185					190		
Tyr	Glu	Cys	Tyr	Glu	Cys	Gly	Lys	Cys	Phe	Ser	Gln	Met	Ser	Tyr	Leu
		195					200					205			
Thr	Ile	His	His	Arg	Ile	His	Ser	Gly	Glu	Asn	Leu				
	210					215					220				

<210> 5505

<211> 111

<212> PRT

4870

<213> Homo sapiens

<400> 5505

Lys Arg Glu Phe Ala Gly Glu Lys Arg Leu Asp Leu Val Glu Asp Cys
 1 5 10 15

Leu Gly Trp Gly Ser Thr Thr Trp Arg Phe Gln Ile His Leu Ala Cys
 20 25 30

Lys Gln Gln Ser Tyr Pro Tyr Leu Pro His Val Asn Val Ile Ala Arg
 35 40 45

Val Thr Leu Asp Lys Leu Gln Thr Asp Gly Pro Ser Ser Ser Pro Gly
 50 55 60

Ala Pro Trp Met Ala Ala Leu Leu Gln Ser Val Ser Cys Phe Trp Asn
 65 70 75 80

Ser Leu Leu Gly Asn Phe Lys Glu Glu Lys Lys Asn Leu Asn Cys Val
 85 90 95

Glu Leu Leu Tyr Leu Leu Leu Phe Phe Phe Glu Lys Ile Asn Leu
 100 105 110

<210> 5506

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5506

Thr Lys Ser Ser Ala Leu Gly Pro Arg Ala Pro Ser Leu Arg Arg His
 1 5 10 15

Val Leu Ile His Asn Thr Leu Gln Gln Leu Gln Ala Ala Leu Arg Leu
 20 25 30

Ala Pro Ala Pro Ala Leu Pro Pro Glu Pro Leu Phe Leu Gly Glu Glu
 35 40 45

4871

Asp Phe Ser Leu Ser Ala Xaa Ile Gly Ser Ile Leu Arg Glu Leu Asp
 50 55 60
 Thr Ser Met Asp Gly Thr Glu Pro Pro Gln Asn Pro Val Thr Pro Leu
 65 70 75 80
 Gly Leu Gln Asn Glu Val Pro Pro Gln Pro Asp Pro Val Phe Leu Glu
 85 90 95
 Ala Leu Ser Ser Arg Tyr Leu Gly Asp Ser Gly Leu Asp Asp Phe Phe
 100 105 110
 Leu Asp Ile Asp Thr Ser Ala Val Glu Lys Glu Pro Ala Arg Ala Pro
 115 120 125
 Pro Glu Pro Xaa His Asn Leu Phe Cys Ala Pro Gly Ser Trp Glu Trp
 130 135 140
 Asn Glu Leu Asp His Ile Met Glu Ile Ile Leu Gly Ser
 145 150 155

<210> 5507

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5507

Lys Met Met Arg Val His Gln Asp Ser Thr Xaa Glu Lys Leu Pro Phe
 1 5 10 15

4872

Phe Pro Leu Xaa Ala Asp Trp Lys Ala Ser Arg Ala Xaa Leu Cys Ala
 20 25 30

Leu Phe Arg Xaa Thr His Lys Asp Leu Gly Lys Cys Lys
 35 40 45

<210> 5508

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5508

Asn Phe Ile Phe Ile Leu Lys Leu His Leu Leu Lys Ser Leu Lys Ile
 1 5 10 15

Ile Ser Val His Val Leu Asn Thr Ser Leu Tyr Ser Val Ile Asn Thr
 20 25 30

Pro Asp Phe Phe Pro Leu Thr Leu Cys His Pro Ser Val Cys Leu Val
 35 40 45

Ser Ser Met Pro Cys Gly Arg Gly Val Ser Leu Ser Ser Ala Gln Glu
 50 55 60

Gly Asn Phe Lys His Ile Cys Thr Ile Lys Phe Gln Ile Lys His Phe
 65 70 75 80

Lys Lys Gly Ala Gln Thr Arg Asn Thr Cys Ser Ser Glu Ile Pro Cys
 85 90 95

Cys Asn Cys Asn Ser Cys His Ile Tyr Pro Val Tyr Glu Glu Lys Phe
 100 105 110

Leu Gln Phe Ser His Cys Pro Ser Val Leu Leu Pro Gly Cys Ala Leu
 115 120 125

Leu Leu Glu Leu Lys Tyr Glu Ile Phe Thr Leu Lys Tyr Val Asn Val
 130 135 140

Lys Val Asp Arg Ile Lys Phe Xaa Asn Pro Leu Arg Phe Ile
 145 150 155

4873

<210> 5509

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5509

Ile	Thr	Gly	Met	Ser	His	Cys	Ala	Arg	Pro	Ser	Phe	Leu	Phe	Asn	Lys
1				5				10						15	

Cys	Met	Tyr	Leu	Lys	Ala	Ile	Ala	Phe	Ser	Arg	Asn	Leu	Phe	Leu	Cys
			20					25					30		

Ser	Gly	Arg	Ala	Tyr	Lys	Leu	Cys	Leu	Gln	Leu	Phe	Phe	Phe	Ser	Lys
			35				40					45			

Gly	Asn	Thr	Ser	Gly	Arg
					50

<210> 5510

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5510

Ser	Thr	Arg	Gln	Pro	Asn	Pro	Phe	Gly	Ala	Thr	Ile	Asp	Cys	Tyr	Lys
1				5				10						15	

Ala	His	Pro	Trp	Val	Lys	Ile	Tyr	Tyr	Leu	Gln	Leu	Tyr	Leu	Met	Thr
			20					25					30		

Leu	Ile	Leu	Pro	Ser	Ser	Tyr	Ile	Lys	Phe	Gly	Xaa	Val	Phe	Tyr	Xaa
			35				40					45			

Ile	Ile	Phe
		50

4874

<210> 5511
 <211> 120
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (111)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (113)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5511
 Gln Pro Arg Arg Pro Pro Arg Cys Pro Leu Pro Arg Gly Pro Trp Gly
 1 5 10 15
 Arg Pro Arg Ala Thr Gly Pro Gln Leu Gly Cys Ile Ser Ser Thr Ser
 20 25 30
 Cys Pro Ala Pro Thr Ser Ser Ser Ala Arg Cys Pro Ala Phe Ser Arg
 35 40 45
 Pro Arg Ala Gly Ile Pro Ala Gly Leu Val Ala Gly Gly Gly Leu Gly
 50 55 60
 Gly Pro Gly Leu Gly Pro Glu Pro His Phe His Arg Cys Leu Pro His
 65 70 75 80
 Pro Leu Leu Leu Leu Pro Ala Pro Arg Ala Pro Arg Val Gln Asp Pro
 85 90 95
 Leu Ala Arg Gly Arg Leu Arg His Leu Glu Leu Ile Val Pro Xaa Ser
 100 105 110
 Xaa Ala Ala Leu Ala Leu Ala Ser
 115 120

<210> 5512
 <211> 67
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

4875

<400> 5512

Ala Ile Leu Lys Gln Thr Pro Leu Lys Lys Gln Thr Asn Lys Lys Asn
 1 5 10 15
 Ile Asp Phe Phe Ile Ser Phe Glu Leu Pro Pro Phe Tyr Tyr Val Met
 20 25 30
 Asn Met Cys Cys Phe Cys Asn Arg Lys Ile Ile Lys Leu Lys Phe Gln
 35 40 45
 Leu Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 50 55 60
 Lys Lys Xaa
 65

<210> 5513

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5513

Asn Ala Thr Ile Ile Val Asn Lys Ile Pro Val Asn Thr Cys Cys Leu
 1 5 10 15
 Cys Cys Leu Ser Pro Asp Ser Arg Ala Glu Phe Ser Phe Cys Thr Val
 20 25 30
 Ala Leu Ala Leu Thr Val Thr Ala Leu Gln Gln Ala Pro Ser Pro Arg
 35 40 45
 Pro Phe Arg Ser Ile Pro Gln Arg Val Leu His Val Ser Ser Pro Met
 50 55 60
 Ser Ser Leu Gly Ser Ser Val Lys Thr His Ser Ser Pro Ala Gly Val
 65 70 75 80
 Leu Arg Asp Ala Arg Ser Leu Trp Gly Gln Phe Gly Xaa Ile Asp Ile
 85 90 95
 His Val

4876

<210> 5514

<211> 61

<212> PRT

<213> Homo sapiens

<400> 5514

Gly	Lys	Lys	Arg	Lys	Lys	Leu	Tyr	Phe	Phe	Ser	Ile	Tyr	Leu	Leu	Gln
1				5				10					15		

Arg	Thr	Leu	Cys	Phe	Leu	Ser	Cys	Lys	Thr	Ser	Tyr	Phe	Ser	Tyr	Tyr
			20					25					30		

Cys	Thr	Leu	Glu	Lys	Ser	Cys	Arg	Phe	Met	Leu	Asn	Ser	Tyr	Leu	Arg
			35				40					45			

Thr	Ile	Val	Ile	Ser	Ser	Lys	Arg	His	Glu	Leu	Ser	Ser
	50					55					60	

<210> 5515

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5515

Phe	Lys	Ala	Leu	Asn	Ser	Lys	Ser	Ile	Lys	Thr	Tyr	Leu	Gly	Glu	Thr
1				5				10					15		

Gly	Ile	Met	Gln	Phe	Ile	Thr	Cys	Ile	His	Ser	Ser	Ile	Gln	Lys	Tyr
			20					25					30		

Gly	Xaa	Ile	Trp	Tyr	Leu	Lys	Leu	Lys	Cys	Gly	Ser	Lys	Ala	Thr	Lys
			35				40					45			

Ser	Glu	Thr	Trp	Xaa
	50			

4877

<210> 5516

<211> 33

<212> PRT

<213> Homo sapiens

<400> 5516

Phe Ala Asn Leu Lys Ile Gly Thr Pro Leu Gly Met Pro Asp Arg Arg
1 5 10 15

Val Leu His Ile Cys Arg Gly Arg Gln Glu Leu Asn Ile Thr Thr Ser
20 25 30

Phe

<210> 5517

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5517

Ala Thr Glu Pro Ser Leu Leu Xaa Ser Phe Xaa His Asn Phe Cys Phe
1 5 10 15

4878

Ile His Asn Phe Ser Ser Ile Glu Ser Arg Ile Lys Thr Trp Val Leu
 20 25 30

Ser Leu Xaa Leu Ser Val Glu Ala Tyr Glu Cys Leu Leu Lys Ile Met
 35 40 45

Phe Leu Asn Ala Leu Asn Ile Xaa Asp Tyr Lys Gly Ile Leu Leu Phe
 50 55 60

Glu Ile Arg Xaa
 65

<210> 5518

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5518

Thr Asn Arg Pro Leu Ser Phe Pro Gln Phe Ile Thr Phe Ser Leu Phe
 1 5 10 15

Thr Leu Cys Pro Met Thr Phe Leu His His Trp Leu Leu Phe Ile Lys
 20 25 30

Pro Thr Ile Lys Asn Ile Gln Val Gln Leu Phe Leu Trp Ala Phe Ile
 35 40 45

Ser Leu Trp Xaa Pro Ser Cys Arg Val Lys Leu Ile Leu Asn Lys Cys
 50 55 60

Ala Cys Phe Ser Leu Ala Asn Leu Ser Phe Val Ile Glu Ile Ser Ala
 65 70 75 80

Leu Asn Leu Gly Trp Ile Glu Gly Asn Ile Cys Ser Pro Leu His
 85 90 95

<210> 5519

<211> 41

<212> PRT

<213> Homo sapiens

4879

<400> 5519

Asp Gly Ile Val His Phe Leu Val Leu Ser Gln Val Gln Pro Val Cys
 1 5 10 15

Gly Asn Leu Ser Leu Pro Thr Ser Phe Val Ala Leu Val Cys Ser Gly
 20 25 30

Gln Lys Val Arg Ala Pro Leu Leu Thr
 35 40

<210> 5520

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5520

Arg Cys Ser Ser Ile Phe Thr Pro Trp Lys Leu Thr Thr Leu Ser Ser
 1 5 10 15

Phe Leu His His His Pro Gly Ala Gln Arg Ser Lys Leu Leu Ser Ile
 20 25 30

Phe Ser Pro Ser Pro Arg Thr Leu Thr Leu Tyr Arg Met Gly Pro Ser
 35 40 45

Ser Cys Leu Leu Leu Ile Leu Ile Pro Leu Leu Gln Leu Ile Asn Xaa
 50 55 60

Gly Ser Thr Gln Cys Ser Leu Asp Ser Val Met Asp Lys Lys Ile Lys
 65 70 75 80

Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro Ile Ser Lys Lys
 85 90 95

Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro Ser Ser Cys Pro
 100 105 110

Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr Gly Cys Gly Ser
 115 120 125

Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln Cys Ser Val Val
 130 135 140

Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr

4880

145 150 155

<210> 5521

<211> 93

<212> PRT

<213> Homo sapiens

<400> 5521

Ile Lys Val Asp Gly Lys Ala Ile Ser Ile Arg Ile Glu Thr Glu Ser
1 5 10 15

Tyr Asn Thr Val Cys Thr Thr Leu Arg Trp Ile His Ser Ala His Ala
 20 25 30

Leu Asn Val Tyr Ile Val Leu Ser Val Gly Ser Gly Thr Phe Ser Leu
 35 40 45

Val Phe Leu Lys Asn Tyr Lys Ser Glu Glu Lys Ala Ser Ile Ile Asn
 50 55 60

Lys Thr Asn Asn Cys Phe Thr Ala Leu Arg Asn Asn Asn Tyr Asn Val
65 70 75 80

Tyr Tyr Leu Lys Met Gly Glu Ile Val Cys Ser Met Lys
 85 90

<210> 5522

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5522

Ile Ser His Ala Ile Ile Trp Val Cys Cys Ile Lys Ser Ser Thr Thr
1 5 10 15

Leu Trp Phe Ser His Cys Ile Ile Lys His Glu Ala Ser Arg Ile Lys
 20 25 30

Ser Tyr Cys Phe Thr Cys Leu Leu Ser Pro Leu Cys His Phe Thr Phe
 35 40 45

<210> 5523

4881

<211> 169

<212> PRT

<213> Homo sapiens

<400> 5523

His Glu Glu Lys Thr Thr Tyr Asp Ser Ala Glu Glu Glu Asn Lys Glu
 1 5 10 15

Asn Leu Tyr Ala Gly Lys Asn Thr Lys Ile Lys Arg Ile Tyr Lys Thr
 20 25 30

Val Ala Asp Ser Asp Glu Ser Tyr Met Glu Lys Ser Leu Tyr Gln Glu
 35 40 45

Asn Leu Glu Ala Gln Val Lys Pro Cys Leu Glu Leu Ser Leu Gln Ser
 50 55 60

Gly Asn Ser Thr Asp Phe Thr Thr Asp Arg Lys Ser Ser Lys Lys His
 65 70 75 80

Ile His Asp Lys Glu Gly Thr Ala Gly Lys Ala Lys Val Lys Ser Lys
 85 90 95

Arg Arg Leu Glu Lys Glu Glu Arg Lys Met Glu Lys Ile Arg Gln Leu
 100 105 110

Lys Lys Lys Glu Thr Lys Asn Gln Glu Asp Asp Val Glu Gln Pro Phe
 115 120 125

Asn Asp Ser Gly Cys Leu Leu Val Asp Lys Asp Leu Phe Glu Thr Gly
 130 135 140

Leu Glu Asp Glu Asn Asn Ser Pro Leu Glu Asp Glu Glu Ser Leu Glu
 145 150 155 160

Ser Ile Arg Ala Ala Val Lys Asn Lys
 165

<210> 5524

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5524

Gly Gly Thr Gly Ser Glu Cys Arg Ala Gln Gly Glu Ile Gly Ser Pro
 1 5 10 15

Cys Arg Thr Cys Ser Ser Pro Ala Pro Lys Gly Asp Gly Val Trp Ala
 20 25 30

4882

Trp Gly Phe Leu His Val Pro Pro Tyr Pro Asp Pro Ser Ser Gln Ser
 35 40 45

Val Thr Leu Leu Trp Ala Gln Pro Pro Asn Arg Ser His Leu Gly Leu
 50 55 60

Gly Gln Thr
 65

<210> 5525

<211> 172

<212> PRT

<213> Homo sapiens

<400> 5525

Pro Thr Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Asp Ser Ser Lys
 1 5 10 15

Pro Ile Val Arg Glu Ser Trp Met Thr Glu Leu Pro Pro Glu Met Lys
 20 25 30

Asp Phe Gly Leu Gly Pro Arg Thr Phe Lys Arg Arg Ala Asp Asp Thr
 35 40 45

Ser Gly Asp Arg Ser Ile Trp Thr Asp Thr Pro Ala Asp Arg Glu Arg
 50 55 60

Lys Ala Lys Glu Thr Gln Glu Ala Arg Lys Ser Ser Ser Lys Lys Asp
 65 70 75 80

Glu Glu His Ile Leu Ser Gly Arg Asp Lys Arg Leu Ala Glu Gln Val
 85 90 95

Ser Ser Tyr Asn Glu Ser Lys Arg Ser Glu Ser Leu Met Asp Ile His
 100 105 110

His Lys Lys Leu Lys Ser Lys Ala Ala Glu Asp Lys Asn Lys Pro Gln
 115 120 125

Glu Arg Ile Pro Phe Asp Arg Asp Lys Asp Leu Lys Val Asn Arg Phe
 130 135 140

Asp Glu Ala Gln Lys Lys Ala Leu Ile Lys Lys Ser Arg Glu Leu Asn
 145 150 155 160

Thr Arg Phe Ser His Gly Lys Gly Asn Met Phe Leu
 165 170

4883

<210> 5526

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5526

Ala	Phe	Ser	Arg	Lys	Ser	His	Leu	Ile	Pro	His	Gln	Arg	Thr	His	Thr
1				5					10					15	

Gly	Glu	Lys	Pro	Tyr	Gly	Cys	Ser	Glu	Cys	Arg	Lys	Ala	Phe	Ser	Gln
			20					25					30		

Lys	Ser	Gln	Leu	Val	Asn	His	Gln	Arg	Ile	His	Thr	Gly	Glu	Lys	Pro
		35					40					45			

Tyr	Arg	Cys	Ile	Xaa	Cys	Gly	Lys	Ala	Phe	Ser	Gln	Lys	Ser	Gln	Leu
	50					55					60				

Ile	Asn	His	Gln	Arg	Thr	His	Thr	Val	Lys	Lys	Ser
65					70					75	

<210> 5527

<211> 398

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (382)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (395)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5527

Cys	Val	Asn	Pro	Glu	Leu	Ile	Ile	Trp	Val	Asn	Arg	Phe	Val	Met	Cys
1				5				10					15		

Phe	Phe	Val	Glu	Leu	Lys	Lys	Ala	Ser	Lys	Arg	Met	Thr	Cys	His	Lys
			20				25						30		

4884

Arg	Tyr	Lys	Ile	Gln	Lys	Lys	Val	Arg	Glu	His	His	Arg	Lys	Leu	Arg	35	40	45	
Lys	Glu	Ala	Lys	Lys	Arg	Gly	His	Lys	Lys	Pro	Arg	Lys	Asp	Pro	Gly	50	55	60	
Val	Pro	Asn	Ser	Ala	Pro	Phe	Lys	Glu	Ala	Leu	Leu	Arg	Glu	Ala	Glu	65	70	75	80
Leu	Arg	Lys	Gln	Arg	Leu	Glu	Glu	Leu	Lys	Gln	Gln	Gln	Lys	Leu	Asp	85	90	95	
Arg	Gln	Lys	Glu	Leu	Glu	Lys	Lys	Arg	Lys	Leu	Glu	Thr	Asn	Pro	Asp	100	105	110	
Ile	Lys	Pro	Ser	Asn	Val	Glu	Pro	Met	Glu	Lys	Glu	Phe	Gly	Leu	Cys	115	120	125	
Lys	Thr	Glu	Asn	Lys	Ala	Lys	Ser	Gly	Lys	Gln	Asn	Ser	Lys	Lys	Leu	130	135	140	
Tyr	Cys	Gln	Glu	Leu	Lys	Lys	Val	Ile	Glu	Ala	Ser	Asp	Val	Val	Leu	145	150	155	160
Glu	Val	Leu	Asp	Ala	Arg	Asp	Pro	Leu	Gly	Cys	Arg	Cys	Pro	Gln	Val	165	170	175	
Glu	Glu	Ala	Ile	Val	Gln	Ser	Gly	Gln	Lys	Lys	Leu	Val	Leu	Ile	Leu	180	185	190	
Asn	Lys	Ser	Asp	Leu	Val	Pro	Lys	Glu	Asn	Leu	Glu	Ser	Trp	Leu	Asn	195	200	205	
Tyr	Leu	Lys	Lys	Glu	Leu	Pro	Thr	Val	Val	Phe	Arg	Ala	Ser	Thr	Lys	210	215	220	
Pro	Lys	Asp	Lys	Gly	Lys	Ile	Thr	Lys	Arg	Val	Lys	Ala	Lys	Lys	Asn	225	230	235	240
Ala	Ala	Pro	Phe	Arg	Ser	Glu	Val	Cys	Phe	Gly	Lys	Glu	Gly	Leu	Trp	245	250	255	
Lys	Leu	Leu	Gly	Gly	Phe	Gln	Glu	Thr	Cys	Ser	Lys	Ala	Ile	Arg	Val	260	265	270	
Gly	Val	Ile	Gly	Phe	Pro	Asn	Val	Gly	Lys	Ser	Ser	Ile	Ile	Asn	Ser	275	280	285	
Leu	Lys	Gln	Glu	Gln	Met	Cys	Asn	Val	Gly	Val	Ser	Met	Gly	Leu	Thr	290	295	300	

4885

Arg Ser Met Gln Val Val Pro Leu Asp Lys Gln Ile Thr Ile Ile Asp
 305 310 315 320

Ser Pro Ser Phe Ile Val Ser Pro Leu Asn Ser Ser Ser Ala Leu Ala
 325 330 335

Leu Arg Ser Pro Ala Ser Ile Glu Val Val Lys Pro Met Glu Ala Ala
 340 345 350

Ser Ala Ile Leu Ser Gln Ala Asp Ala Arg Gln Val Val Leu Lys Tyr
 355 360 365

Thr Val Pro Gly Tyr Arg Asn Ser Leu Gly Ile Phe Tyr Xaa Ala Cys
 370 375 380

Ser Glu Lys Arg Tyr Ala Pro Lys Arg Trp Xaa Pro Lys Cys
 385 390 395

<210> 5528

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5528

Gln Ser Gly Arg Gly Gly Asp Arg Gly Arg Ser Lys Val Asp Thr Ser
 1 5 10 15

Ala Lys Pro Phe Ala Val Ile Ser Asp Cys Ala Val Ser Cys Pro Val
 20 25 30

His Gln Ser Pro Leu Val Phe Asp Val Gly Gln Cys Arg Gln His Asp
 35 40 45

4886

Leu Ala Gly Gln Xaa Leu Ile Tyr His Ser Xaa Asp Thr Ser Trp Ser
 50 55 60

Leu Gly Ser Xaa His Pro Met Phe Pro Leu Phe Pro His Leu
 65 70 75

<210> 5529

<211> 80

<212> PRT

<213> Homo sapiens

<400> 5529

Glu Pro Ala Trp Gly Asp Cys Gln Val Ala Lys Gly Lys Glu Arg Val
 1 5 10 15

Ala Asn Cys Leu Leu His Leu Ala Ala Gln Pro Gly Leu Pro Ala Phe
 20 25 30

Lys Gly His Phe Phe Gly Gln Glu Leu Thr Arg Met Ser Pro Glu Ser
 35 40 45

Ser Thr Pro Arg Val Cys Gly Asn His Pro Leu Leu Asn Thr Glu Ser
 50 55 60

Cys Arg Ile Ile Val Gly Lys Glu Ala Thr Ser Ser Glu Ala Val Val
 65 70 75 80

<210> 5530

<211> 155

<212> PRT

<213> Homo sapiens

<400> 5530

Ala Val Thr Ser Leu Lys Ala Pro Val Ile Thr Leu Arg Ser Ser Ser
 1 5 10 15

Ser Asn Cys His Pro Thr Ser Leu Ala Ser Cys Arg Lys Val Asn Leu
 20 25 30

Asp Asn Thr Trp Leu Ser Phe Leu Thr Asn Ala Gly Ser Gly Arg Asn
 35 40 45

Ser Leu Val Leu Lys Ser Lys Asn Thr Asn Cys Leu Arg Phe Ser Asn
 50 55 60

4887

Thr	Pro	Met	Lys	Ala	Ser	His	Pro	Ser	Leu	Leu	Thr	Arg	Phe	Pro	Ala
65					70					75					80
Lys	Phe	Asn	Cys	Trp	Lys	Phe	Phe	Arg	Gly	Phe	Phe	Pro	Lys	Asn	Ala
			85						90					95	
Pro	Lys	Ile	Leu	Ile	Ser	Val	Ser	Val	Ser	Leu	Gln	Phe	Phe	Asn	Pro
			100					105						110	
Ser	Leu	Thr	Ser	Cys	Gly	Thr	Ser	Ser	Lys	Cys	Phe	Asn	Lys	Leu	Leu
		115					120					125			
Arg	Leu	Pro	Cys	Thr	Ser	Gln	Pro	Gln	Gly	Ser	Ile	Ser	Ala	Val	Ser
	130					135					140				
Cys	Ser	Ser	Thr	Phe	Ile	Leu	Ser	Ile	Ser	Ser					
145					150					155					

<210> 5531

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5531

Ile	Ile	Val	Ile	Ile	Gly	Val	Ser	His	His	Ala	Arg	Pro	Val	Ser	Ala
1				5					10					15	
Phe	Ile	Lys	Ile	Val	His	Ser	Phe	Ile	His	Ser	Cys	Ser	Leu	Lys	Met
			20					25					30		
Leu	Phe	Arg	Lys	Glu	Phe	Asp	Lys	Ile	Asn	Ile	Ile	Gln	Asn	Ser	Lys
			35				40					45			
Lys	Lys	Glu	Xaa	Ser	Phe	Cys	Phe	Ser	His	Lys	Leu	Gly	Leu	Leu	
	50					55					60				

<210> 5532

<211> 145

<212> PRT

<213> Homo sapiens

4888

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5532

Lys Gln Pro Pro Leu Gln Ser His Pro Pro Ser Gly Cys Gly Arg Pro
 1 5 10 15

Gly Trp Pro Ala Glu Ala Pro Arg Pro Gly Leu His Pro Ser Ala Gln
 20 25 30

Thr Thr Ala Gly Arg Ala Gly Val Gln Val Gly Gln Leu Pro Pro Phe
 35 40 45

His Pro Ser Pro Pro Leu Leu Arg Pro His Gln Glu Gln Asp Pro Cys
 50 55 60

Ala Ser Val Val Leu Pro Cys Leu Gln Ala Ala Cys Gly Pro Ala Val
 65 70 75 80

Thr Gln Pro Gly Asp Thr Thr Ser Pro Gly Gly Leu Cys Ala Xaa Arg
 85 90 95

His Leu Arg Xaa Trp Lys Pro Ser Cys Gly Arg Arg Leu Gly Glu Gly
 100 105 110

Arg Arg Glu Gly Gly His Ala Ala Ser Val Ala Ser Thr Thr Leu Thr
 115 120 125

Val Pro Trp Arg Trp Leu Ser Pro Asp Arg Gly Gln Thr His Arg Ala
 130 135 140

Arg

145

<210> 5533

<211> 113

<212> PRT

<213> Homo sapiens

<400> 5533

Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr
 1 5 10 15

4889

His Ala Ser Ala Asp Ala Trp Gly Lys Thr Phe Ala Arg Tyr Leu Ser
 20 25 30
 Phe Arg Arg Asp Asn Asn Glu Leu Leu Leu Phe Ile Leu Lys Gln Leu
 35 40 45
 Val Ala Glu Gln Val Thr Tyr Gln Arg Asn Arg Phe Gly Ala Gln Gln
 50 55 60
 Asp Thr Ile Glu Val Pro Glu Lys Asp Leu Val Asp Lys Ala Arg Gln
 65 70 75 80
 Ile Asn Ile His Asn Leu Ser Ala Phe Tyr Asp Ser Glu Leu Phe Arg
 85 90 95
 Met Asn Lys Phe Ser His Asp Leu Lys Arg Lys Met Ile Leu Gln Gln
 100 105 110
 Phe

<210> 5534

<211> 180

<212> PRT

<213> Homo sapiens

<400> 5534

Phe Ser Gln His Ser Arg Leu Ala Val His Arg Arg Ile His Thr Gly
 1 5 10 15
 Glu Lys Pro Tyr Lys Cys Lys Glu Cys Gly Lys Val Phe Ser Asp Arg
 20 25 30
 Ser Ala Phe Ala Arg His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr
 35 40 45
 Lys Cys Lys Glu Cys Gly Lys Val Phe Ser Gln Cys Ser Arg Leu Thr
 50 55 60
 Val His Leu Arg Ile His Ser Gly Glu Lys Pro Tyr Lys Cys Asn Glu
 65 70 75 80
 Cys Gly Lys Val Tyr Ser Gln Tyr Ser His Leu Val Gly His Arg Arg
 85 90 95
 Val His Thr Gly Glu Lys Pro Tyr Lys Cys His Glu Cys Gly Lys Ala
 100 105 110

4890

Phe Asn Gln Gly Ser Thr Leu Asn Arg His Gln Arg Ile His Thr Gly
 115 120 125
 Glu Lys Pro Tyr Lys Cys Asn Gln Cys Gly Asn Ser Phe Ser Gln Arg
 130 135 140
 Val His Leu Arg Leu His Gln Thr Val His Thr Gly Asp Arg Pro Tyr
 145 150 155 160
 Lys Cys Asn Glu Cys Gly Gln Asn Leu Leu Asn Gly Ala Gln Thr Ser
 165 170 175
 Leu His Ile Arg
 180

<210> 5535

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5535

Pro Arg Met Ala Thr Gln Arg Lys His Leu Val Lys Asp Phe Asn Pro
 1 5 10 15

Tyr Ile Thr Cys Tyr Ile Cys Lys Gly Tyr Leu Ile Lys Pro Thr Thr
 20 25 30

Val Thr Glu Cys Leu His Thr Phe Cys Lys Thr Cys Ile Val Gln His
 35 40 45

Phe Glu Asp Ser Asn Asp Cys Pro Arg Cys Gly Asn Gln Val His Glu
 50 55 60

Thr Asn Pro Leu Glu Met Leu Arg Leu Asp Asn Thr Leu Glu Glu Ile

4891

65		70		75		80
Ile Phe Lys Leu Val Pro Gly Leu Arg Glu Gln Glu Leu Glu Arg Glu						
	85		90		95	
Ser Glu Phe Trp Lys Xaa Asn Lys Pro Gln Xaa Asn Gly Gln Asp Asp						
	100		105		110	
Thr Ser Lys Ala Asp Lys Pro Lys Val Asp Glu Glu Gly Asp Glu Asn						
	115		120		125	
Glu Asp Asp Lys Asp Tyr Pro Gln Glu Val Thr His Lys Leu Ala Ile						
	130		135		140	
Cys Leu Gly Cys Phe Thr Xaa Leu Met Gly Pro Phe Gly Gly His Val						
	145		150		155	160
Gly Lys Gly Phe						

<210> 5536

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5536

Asn Ser Val Lys Phe Cys Leu Lys Lys Pro Leu Ile Glu Phe Glu Asn						
1		5		10		15
His Lys Pro Phe Gln Val Ser Leu Trp Val Cys Phe Gly Phe Phe Phe						
	20		25		30	
Phe Phe Leu Ser Leu Trp Pro Asn Val Arg Gly Ile Arg Phe Cys Lys						
	35		40		45	
Gln Ala Ala Val Ser Ile Ser						
	50		55			

<210> 5537

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

4892

<400> 5537

Ser Gly Pro Pro Gly Leu His Ser Arg Ser Ser Pro Ala Pro Ser Ala
1 5 10 15
Ser Val Glu Pro Gln Ala Trp Xaa Arg Asp Glu Arg Asp Ala Ala Leu
20 25 30
Ala Arg Gly Arg Pro Ser Ala Pro Lys Thr Arg Glu Gln Ala Pro Gly
35 40 45
Glu Lys Pro Leu Glu Val Ser Trp Ser Arg Glu Ser Pro Val Ser Cys
50 55 60

<210> 5538

<211> 68

<212> PRT

<213> Homo sapiens

<400> 5538

Ala Phe Asp Gly Leu Ser Thr Ser Ser Ser Gln His Ile Leu Pro Ala
1 5 10 15
Val Ala Ala Trp Leu Gly Leu Phe Phe Ser Tyr Pro Asn Pro Met Met
20 25 30
Pro Gly Thr Leu Ile Thr Val Leu His Gln Leu Leu Tyr Phe Ser Val
35 40 45
Tyr Phe His Asn Glu Leu Tyr Cys His Leu Asp Phe Glu Gln Leu Trp
50 55 60
Glu Ile Glu Asp
65

<210> 5539

<211> 113

<212> PRT

<213> Homo sapiens

<400> 5539

Gln Glu Pro Pro Ile Met Ala Glu Gly Lys Gly Gly Val Ser Cys Leu
1 5 10 15

4893

Thr Trp Pro Glu Gln Glu Val Glu Arg Gly Arg Cys His Thr Leu Thr
 20 25 30
 Asn Asn Gln Ile Ser Gly Gln Leu Thr Gln Tyr Gln Glu Asn Ser Thr
 35 40 45
 Thr Lys Leu Trp Leu Ile Ile His Glu Lys Pro Pro Thr Thr Gln Ser
 50 55 60
 Pro Pro Thr Arg Pro Tyr Leu Gln His Leu Gly Leu Gln Phe Asn Met
 65 70 75 80
 Arg Phe Gly Gly Asn Thr Asp Pro Asn His Ile Thr His Lys Leu Gln
 85 90 95
 Leu Leu His Thr His Asp Asn Pro Leu Ile Cys Glu Gly Leu Ile Cys
 100 105 110

Ser

<210> 5540

<211> 33

<212> PRT

<213> Homo sapiens

<400> 5540

Ser Arg Tyr Tyr Ser Glu Ala Cys Ile Leu Tyr Ala Ser Gly His Val
 1 5 10 15
 Leu Ser Cys Glu Val Arg Cys Ile Ser Tyr Cys Gly Leu Gln Ser Lys
 20 25 30

Phe

<210> 5541

<211> 63

<212> PRT

<213> Homo sapiens

<400> 5541

Gly Ala Asp Ser Ala Cys Pro Gly Pro Ala Lys Trp Leu Ser Ser Leu
 1 5 10 15
 Arg Ala His Val Val Arg Thr Gly Ile Gly Gln Ala Arg Ala Lys Leu
 20 25 30

4894

Phe Glu Lys Gln Ile Val Gln His Gly Gly Gln Leu Cys Pro Ala Gln
 35 40 45

Gly Pro Gly Val Thr His Ile Val Val Asp Glu Ala Trp Thr Met
 50 55 60

<210> 5542

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5542

Met Ser Gln Ala Gly Asn Ser Glu Val Tyr Leu Ala Ile His Val Phe
 1 5 10 15

Lys Met Ala Ala Ser Arg Arg Phe Thr Gly Val Pro Asp Arg Arg Gly
 20 25 30

Gly Gly Ala Gln Ala Arg Met Lys Leu Glu Leu Ala Arg Ser Arg Lys
 35 40 45

Thr Ile Ala Gly Gly Thr Ala Ser Val Gly Ala Glu Glu Thr
 50 55 60

<210> 5543

<211> 317

<212> PRT

<213> Homo sapiens

<400> 5543

Gly Gly Pro Met Lys Asp Cys Glu Tyr Ser Gln Ile Ser Thr His Ser
 1 5 10 15

Ser Ser Pro Met Glu Ser Pro His Lys Lys Lys Lys Ile Ala Ala Arg
 20 25 30

Arg Lys Trp Glu Val Phe Pro Gly Arg Asn Lys Phe Phe Cys Asn Gly
 35 40 45

Arg Ile Met Met Ala Arg Gln Thr Gly Val Phe Tyr Leu Thr Leu Val
 50 55 60

Leu Ile Leu Val Thr Ser Gly Leu Phe Phe Ala Phe Asp Cys Pro Tyr
 65 70 75 80

Leu Ala Val Lys Ile Thr Pro Ala Ile Pro Ala Val Ala Gly Ile Leu

4895

85																90								95					
Phe	Phe	Phe	Val	Met	Gly	Thr	Leu	Leu	Arg	Thr	Ser	Phe	Ser	Asp	Pro														
			100				105						110																
Gly	Val	Leu	Pro	Arg	Ala	Thr	Pro	Asp	Glu	Ala	Ala	Asp	Leu	Glu	Arg														
			115				120						125																
Gln	Ile	Asp	Ile	Ala	Asn	Gly	Thr	Ser	Ser	Gly	Gly	Tyr	Arg	Pro	Pro														
			130				135						140																
Pro	Arg	Thr	Lys	Glu	Val	Ile	Ile	Asn	Gly	Gln	Thr	Val	Lys	Leu	Lys														
145				150						155																			
Tyr	Cys	Phe	Thr	Cys	Lys	Ile	Phe	Arg	Pro	Pro	Arg	Ala	Ser	His	Cys														
			165						170						175														
Ser	Leu	Cys	Asp	Asn	Cys	Val	Glu	Arg	Phe	Asp	His	His	Cys	Pro	Trp														
			180						185						190														
Val	Gly	Asn	Cys	Val	Gly	Lys	Arg	Asn	Tyr	Arg	Phe	Phe	Tyr	Met	Phe														
			195						200						205														
Ile	Leu	Ser	Leu	Ser	Phe	Leu	Thr	Val	Phe	Ile	Phe	Ala	Phe	Val	Ile														
			210						215						220														
Thr	His	Val	Ile	Leu	Arg	Ser	Gln	Gln	Thr	Gly	Phe	Leu	Asn	Ala	Leu														
225				230						235																			
Lys	Asp	Ser	Pro	Ala	Ser	Val	Leu	Glu	Ala	Val	Val	Cys	Phe	Phe	Ser														
			245						250						255														
Val	Trp	Ser	Ile	Val	Gly	Leu	Ser	Gly	Phe	His	Thr	Tyr	Leu	Ile	Ser														
			260						265						270														
Ser	Asn	Gln	Thr	Thr	Asn	Glu	Asp	Ile	Lys	Gly	Ser	Trp	Ser	Asn	Lys														
			275						280						285														
Arg	Gly	Lys	Glu	Asn	Tyr	Asn	Pro	Tyr	Ser	Tyr	Gly	Asn	Ile	Phe	Thr														
			290						295						300														
Asn	Cys	Cys	Val	Ala	Leu	Cys	Gly	Pro	Ser	His	Gln	Ala																	
305				310						315																			

<210> 5544

<211> 76

<212> PRT

<213> Homo sapiens

4896

<400> 5544

```

Ile Val Gly Leu Phe His Met Cys Ser Leu Lys Tyr Leu Asn Asn His
 1              5              10              15

Ser Phe His Ser Leu Phe Ser Ser Gln Ala Phe Ser Arg Ser Ser Met
      20              25              30

Trp Ile Leu Lys Asp Leu Pro Ser Leu Thr Arg Ile Thr Phe Lys Gly
      35              40              45

Asp Cys Phe Lys Ile Phe Leu Gln Ile Glu Ile Arg Thr Glu Arg Leu
      50              55              60

Arg Asn Ile Val Tyr Phe Ala Lys Thr Arg Cys Leu
      65              70              75

```

<210> 5545

<211> 117

<212> PRT

<213> Homo sapiens

<400> 5545

```

Glu Thr Leu Val Asn Trp Ser Thr Gly Glu Ser Tyr Lys Trp Pro Met
 1              5              10              15

Ser Gln Lys Ser Trp Asp Leu Leu Pro Ala Ala Ala Asp Ala Asp Arg
      20              25              30

Pro Trp Glu Ala Ala Val Leu Trp Arg Ser Trp Ser Ser Ser Phe Leu
      35              40              45

Gly Leu Ala Trp Leu Pro Gln Lys Glu Gln Ser Gly Leu Glu Gly Ser
      50              55              60

Ile Lys Phe Tyr Thr His Lys Leu Gln Leu Glu Val Ser Phe Leu Lys
      65              70              75              80

Cys Pro Ala Phe Ala Gln Leu Phe Gln Ile Ile Ser Phe Leu Arg Leu
      85              90              95

Trp Gln Val Ser Cys Pro Pro Ser Tyr Ser Ser Val Phe Thr Ser Ser
      100              105              110

Arg Gln Gln Ser Gly
      115

```

<210> 5546

4897

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5546

Val	Gln	Ile	Asn	His	Pro	Asp	Leu	Lys	Val	Asn	Thr	Phe	Tyr	Phe	Ser
1				5					10					15	

Phe	Arg	Ser	Ile	Thr	Glu	Tyr	Ala	Ala	Phe	Arg	Tyr	Arg	Phe	Asn	Leu
			20					25					30		

Pro	Asp	Phe	Leu	Lys	Ile	Leu	Tyr	Phe	Tyr	Ile	Ala	Thr	Thr	Gly	Leu
		35					40					45			

Leu	Asn	Met	Gln	Leu	Asn	Cys	Tyr	Leu	Asn	Lys	Leu	His	Leu	Met	Glu
	50					55					60				

Lys	Lys	Lys
65		

<210> 5547

<211> 315

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5547

Asn	Ile	Glu	Gln	Glu	Asn	Glu	Lys	Leu	Lys	Ala	Glu	Leu	Glu	Lys	Leu
1					5				10					15	

Lys	Ala	His	Leu	Gly	His	Gln	Leu	Ser	Met	His	Tyr	Glu	Ser	Lys	Thr
			20					25					30		

Lys	Gly	Thr	Glu	Lys	Ile	Ile	Ala	Glu	Asn	Glu	Arg	Leu	Arg	Lys	Glu
		35					40					45			

Leu	Lys	Lys	Glu	Thr	Asp	Ala	Ala	Glu	Lys	Leu	Arg	Ile	Ala	Lys	Asn
	50					55					60				

Asn	Leu	Glu	Ile	Leu	Asn	Glu	Lys	Met	Thr	Val	Gln	Leu	Glu	Glu	Thr
65					70					75				80	

Gly	Lys	Arg	Leu	Gln	Phe	Ala	Glu	Ser	Arg	Gly	Pro	Gln	Leu	Glu	Gly
				85					90					95	

4898

Ala Asp Ser Lys Ser Trp Lys Ser Ile Val Val Thr Arg Met Tyr Glu
 100 105 110
 Thr Lys Xaa Lys Glu Leu Glu Thr Asp Ile Ala Lys Lys Asn Gln Ser
 115 120 125
 Ile Thr Asp Leu Lys Gln Leu Val Lys Glu Ala Thr Glu Arg Glu Gln
 130 135 140
 Lys Val Asn Lys Tyr Asn Glu Asp Leu Glu Gln Gln Ile Lys Ile Leu
 145 150 155 160
 Lys His Val Pro Glu Gly Ala Glu Thr Glu Gln Gly Leu Lys Arg Glu
 165 170 175
 Leu Gln Val Leu Arg Leu Ala Asn His Gln Leu Asp Lys Glu Lys Ala
 180 185 190
 Glu Leu Ile His Gln Ile Glu Ala Asn Lys Asp Gln Ser Gly Ala Glu
 195 200 205
 Ser Thr Ile Pro Asp Ala Asp Gln Leu Lys Glu Lys Ile Lys Asp Leu
 210 215 220
 Glu Thr Gln Leu Lys Met Ser Asp Leu Glu Lys Gln His Leu Lys Glu
 225 230 235 240
 Glu Ile Lys Lys Leu Lys Lys Glu Leu Glu Asn Phe Asp Pro Ser Phe
 245 250 255
 Phe Glu Glu Ile Glu Asp Leu Lys Tyr Asn Tyr Lys Glu Glu Val Lys
 260 265 270
 Lys Asn Ile Leu Leu Glu Glu Lys Val Lys Lys Leu Ser Glu Gln Leu
 275 280 285
 Gly Val Glu Leu Thr Ser Pro Val Ala Ala Ser Glu Glu Phe Glu Asp
 290 295 300
 Glu Glu Glu Ser Pro Val Asn Phe Pro Ile Tyr
 305 310 315

<210> 5548

<211> 191

<212> PRT

<213> Homo sapiens

<400> 5548

Gln Leu Asn Thr Ser Ser Thr Asn His Gln Leu Pro Ser Glu His Gln

4899

1	5	10	15
Thr Ile Leu Ser Ser Arg Asp Ser Arg Asn Ser Leu Arg Ser Asn Phe	20	25	30
Ser Ser Arg Glu Ser Glu Ser Ser Arg Ser Asn Thr Gln Pro Gly Phe	35	40	45
Ser Tyr Ser Ser Ser Arg Asp Glu Ala Pro Ile Ile Ser Asn Ser Glu	50	55	60
Arg Val Val Ser Ser Gln Arg Pro Phe Gln Glu Ser Ser Asp Asn Glu	65	70	75
Gly Arg Arg Thr Thr Arg Arg Leu Leu Ser Arg Ile Ala Ser Ser Met	85	90	95
Ser Ser Thr Phe Phe Ser Arg Arg Ser Ser Gln Asp Ser Leu Asn Thr	100	105	110
Arg Ser Leu Asn Ser Glu Asn Ser Tyr Val Ser Pro Arg Ile Leu Thr	115	120	125
Ala Ser Gln Ser Arg Ser Asn Val Pro Ser Ala Ser Glu Val Pro Asp	130	135	140
Asn Arg Ala Ser Glu Ala Ser Gln Gly Phe Arg Phe Leu Arg Arg Arg	145	150	155
Trp Gly Leu Ser Ser Leu Ser His Asn His Ser Ser Glu Ser Asp Ser	165	170	175
Glu Asn Phe Asn Gln Glu Ser Glu Gly Arg Asn Thr Gly Pro Trp	180	185	190

<210> 5549

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5549

Ala Asn Thr Ser Thr Arg Ala Ala Leu Tyr Cys Leu Phe Leu Ser Phe	1	5	10	15
---	---	---	----	----

4900

Ile Met Phe Ala Ser Val Leu Gln Ile Asn Pro Arg Ser Trp Leu Met
 20 25 30
 Lys Lys Val Ile Thr Val Leu Ala Ala Cys Leu Glu Ser Glu Asn Gln
 35 40 45
 Asn Ala Gln Arg Ile Gly Ala Ala Xaa Leu Trp Ala Leu Ile Tyr Asn
 50 55 60
 Tyr Gln Lys Ala Lys Thr Ala Leu Lys Ser Pro Ser Val Lys Arg Arg
 65 70 75 80
 Val Asp Glu Ala Tyr Ser Leu Ala Lys Lys Thr Phe Pro Asn Ser Glu
 85 90 95
 Ala Asn Pro Leu Asn Ala Tyr Tyr Leu Lys Cys Leu Glu Asn Leu Val
 100 105 110
 Gln Leu Leu Asn Ser Ser Leu Ser Ala His Gly Met Pro Thr Pro
 115 120 125

<210> 5550

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5550

Leu Asn His Leu Gln Asn Ala Ser Thr Pro Gly Tyr Ser Lys Leu Pro
 1 5 10 15
 Phe Gln Ile His Phe Gln Thr Ala Leu Thr Trp Ala Ser His Trp Xaa
 20 25 30
 Ser Trp Leu Leu Val Gly Ala Ile Ser Cys Val Asp Pro Gln Val Arg
 35 40 45
 Gly Pro Gly Pro Pro Ala Pro Pro Xaa Gln Arg Gly Glu Pro Ala Gln
 50 55 60

4901

Phe Phe Trp Ser Leu Lys Cys Val Pro Leu Leu Val Ala Arg Ser Pro
 65 70 75 80

Gln Trp Gly Gly Leu Thr Arg Thr Arg
 85

<210> 5551

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5551

Ala Arg Gln Val Lys Ser Leu Arg Asp Pro Ser Ala Lys Met Ser Lys
 1 5 10 15

Ser Asp Pro Asp Lys Leu Ala Thr Val Arg Ile Thr Asp Ser Pro Glu
 20 25 30

Glu Ile Val Gln Lys Phe Arg Lys Ala Val Thr Asp Phe Thr Ser Glu
 35 40 45

Val Thr Tyr Asp Pro Ala Gly Arg Ala Gly Val Ser Asn Ile Val Ala
 50 55 60

Val His Ala Ala Val Thr Gly Leu Ser Val Glu Glu Val Val Arg Arg
 65 70 75 80

Xaa Ala Gly Xaa Glu His Cys Ser Leu Gln Ala Gly Arg Gly Arg Cys
 85 90 95

Cys Asp

<210> 5552

<211> 74

<212> PRT

<213> Homo sapiens

4902

<400> 5552

Thr Glu Glu Val Asp Ser Val Ala Val Ser Val Leu Ala Leu Gly Ser
1 5 10 15
Arg Ile Gly Glu Leu Arg Ala Pro Ile Trp Asp Glu Glu Ser Arg Lys
20 25 30
Gln Leu Ser Ile Ser Ile Lys Arg Ala Glu Gln Pro Leu Ser Leu His
35 40 45
Pro Pro Ser Ala Leu Phe Ser Leu Pro Pro Ser Leu Leu Ser Phe His
50 55 60
Ser Val Tyr Val Ser Phe Gly Pro Ile Pro
65 70

<210> 5553

<211> 65

<212> PRT

<213> Homo sapiens

<400> 5553

Gly Thr Gly Ser Gln Cys Thr Gln His Gly Ala Ile Ser Asp Val Ile
1 5 10 15
Gln Arg Met Arg Gln Asp Lys Ser Tyr Cys Leu Ile Lys Gly Lys Leu
20 25 30
Gly Thr Gly Met Leu Phe Lys Leu Arg Lys Ile Phe Trp Gly Val Lys
35 40 45
Leu Asp Ser Thr Glu Ser Leu Glu Lys Leu Ala Trp Arg Glu Lys Arg
50 55 60
His
65

<210> 5554

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

4903

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (75)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5554
 Ala Pro Thr Asn Leu Phe Phe Phe Phe Phe Glu Thr Glu Ser Gly
 1 5 10 15
 Cys Ala Ser His Phe Leu Ser Phe Xaa Xaa Ser Glu Leu Thr Glu Gln
 20 25 30
 Pro Gly Arg Cys Gly Phe Arg Ser Leu Xaa Leu Ser Xaa Cys Ala Lys
 35 40 45
 Cys Trp Gly Arg Arg Xaa Gln Arg Val Asp Ser Gly Met Val Pro Ala
 50 55 60
 Ala Ser His Phe Tyr Ala Lys Pro Asp Phe Xaa Ser His Pro Gly Gly
 65 70 75 80
 Gln Phe

<210> 5555
 <211> 47
 <212> PRT
 <213> Homo sapiens

4904

<400> 5555

```

Ile Phe Ile Ile Glu Val Ser Phe Pro Leu Gly Ile Ser Leu Ser Leu
 1             5             10             15

Phe Phe Phe Asn Glu Asn Gln Ser Thr Glu Tyr Phe Val Ser Pro Arg
      20             25             30

Lys Thr Pro Gln Leu Ser Ile Met Leu Ser Thr Arg Glu Lys Leu
      35             40             45

```

<210> 5556

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5556

```

Gly Asn Cys Gln Lys Cys Ala Phe Gly Tyr Ser Gly Leu Asp Cys Lys
 1             5             10             15

Asp Lys Phe Gln Leu Ile Leu Thr Ile Val Gly Thr Ile Ala Gly Ile
      20             25             30

Val Ile Leu Ser Met Ile Ile Ala Leu Ile Val Thr Ala Arg Ser Asn
      35             40             45

Asn Lys Thr Lys His Ile Glu Glu Glu Asn Leu Ile Asp Glu Asp Phe
      50             55             60

Gln Asn Leu Lys Leu Arg Ser Thr Gly Phe Thr Asn Leu Gly Ala Glu
      65             70             75             80

Gly Ser Val Phe Pro Lys Val Arg Ile Thr Ala Ser Arg Asp Ser Gln
      85             90             95

Met Gln Asn Pro Tyr Ser Xaa His Ser Ser Met Pro Arg Pro Asp Tyr
      100             105             110

```

<210> 5557

4905

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5557

Phe	Thr	Ala	Arg	Ser	Pro	Trp	Glu	Tyr	Thr	Asn	Leu	Cys	Ser	Arg	Gln
1				5					10					15	

Leu	Gly	Ala	Ser	Leu	Leu	Glu	Thr	Val	Leu	Ile	Phe	Phe	Phe	Leu	Ser
			20					25					30		

Glu	Phe	Gln	Leu	Ile	Leu	Thr	Ile	Val	Gly	Thr	Ile	Ala	Gly	Ile	Val
		35					40					45			

Ile	Leu	Ser	Met	Ile	Ile	Ala	Leu	Ile	Val	Thr	Ala	Arg	Ser	Asn	Asn
	50					55					60				

Lys	Thr	Lys	His	Ile	Glu	Glu	Glu	Asn	Leu	Ile	Asp	Glu	Asp	Phe	Gln
65					70					75					80

Asn	Leu	Lys	Leu	Arg	Ser	Thr	Gly	Phe	Thr	Asn	Leu	Gly	Ala	Glu	Gly
				85					90					95	

Ser	Val	Phe	Pro	Lys	Val	Arg	Ile	Thr	Ala	Ser	Arg	Asp	Ser	Gln	Met
			100					105					110		

Gln	Asn	Pro	Tyr	Ser	Ser	His	Thr	Gln	Lys	Lys	Lys	Lys	Lys	Lys	Lys
		115					120					125			

Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Xaa	Lys
		130					135					140			

Lys	Lys	Xaa	Lys	Lys	Lys	Xaa	Gly
145					150		

4906

<210> 5558

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5558

Phe	Phe	Phe	Xaa	Val	Xaa	Glu	Lys	Ser	Ile	Leu	Leu	Val	Ser	Leu	Xaa
1				5					10					15	

Val	Cys	Leu	Val	Leu	Ser	Glu	Ile	Pro	Phe	Met	Ser	Thr	Trp	Phe	Leu
			20					25					30		

Leu	Val	Ser	Thr	Phe	Ser	Met	Leu	Pro	Leu	Leu	Xaa	Lys	Asp	Glu	Leu
		35					40					45			

Leu	Met	Pro	Ser	Val	Val	Thr	Thr	Met	Ala	Phe	Phe	Ile	Ala	Cys	Val
	50					55					60				

Thr	Ser	Phe	Ser	Ile	Phe	Glu	Lys	Thr	Ser	Glu	Glu	Glu	Leu	Gln	Leu
65					70					75					80

Lys	Ser	Phe	Ser	Ile	Ser	Val	Arg	Lys	Tyr	Leu	Pro	Cys	Phe	Thr	Phe
				85					90					95	

Leu	Ser	Arg	Ile	Ile	Gln	Tyr	Leu	Phe	Leu	Ile	Ser	Val	Ile	Thr	Met
			100					105					110		

Val	Leu	Leu	Thr	Leu	Met	Thr	Val	Thr	Leu	Asp	Pro	Pro	Gln	Lys	Leu
			115				120					125			

4907

Pro Asp Leu Phe Ser Val Leu Val Cys Phe Val Ser Cys Leu Asn Phe
 130 135 140

Leu Phe Phe Leu Val Tyr Phe Asn Ile Ile Ile Met Trp Asp Ser Lys
 145 150 155 160

Ser Gly Arg Asn Gln Lys Lys Ile Ser
 165

<210> 5559

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5559

Gly Trp Arg His Gly Gly Glu His His Gln Asp His Val Glu Leu Gly
 1 5 10 15

Arg Asp Cys Pro Pro Lys Lys Asn Ile Gly Pro Leu Gln Ala Gln Pro
 20 25 30

Pro Leu Pro Leu Glu Phe Phe Ser Gln Ala Gln Cys Gln Lys Phe Ser
 35 40 45

Leu Gly Trp Xaa Gln Ile Cys Xaa Thr Gly Phe Pro Xaa Ser Ser Thr
 50 55 60

Leu Pro Pro
 65

<210> 5560

<211> 115

4908

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5560

Ser	Ser	Lys	Cys	Gly	Phe	Ser	Cys	Ile	Ser	Gln	Ile	Gly	Arg	Pro	Gly
1				5				10					15		

Val	Val	Gly	Val	Pro	Gly	Gly	Arg	Leu	Trp	Ala	Gly	Ser	Gln	Asp	Pro
		20					25						30		

Pro	Phe	Leu	Gly	Gly	Asp	Arg	Ala	Cys	Gly	Ala	Ala	Pro	Arg	Asn	Val
	35						40						45		

Arg	Arg	Lys	Arg	Glu	Arg	Ala	Leu	Ala	Pro	Ser	Ala	Ser	Cys	Leu	Arg
	50					55					60				

Cys	Trp	Arg	Leu	Pro	Ile	Arg	Trp	Phe	Tyr	Pro	Gln	Thr	Pro	Gly	His
65					70					75					80

Arg	Glu	Ser	Arg	Arg	Lys	Gly	Gln	Pro	Arg	Ile	Pro	Ala	Gly	Phe	Leu
				85					90					95	

His	Arg	Gly	Ala	Ser	Gln	Phe	Leu	His	Leu	Ile	Phe	Xaa	Ser	Cys	Gly
		100						105						110	

Arg	Cys	Tyr
	115	

<210> 5561

<211> 210

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4909

<221> SITE
 <222> (171)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (179)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (193)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (197)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (210)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5561
 Glu Glu Ala Ala Lys Ala Ala Gly Thr His Phe Thr Ser Gln Gln Leu
 1 5 10 15
 Gln Glu Leu Glu Ala Thr Phe Gln Arg Asn Arg Tyr Pro Asp Met Ser
 20 25 30
 Thr Arg Glu Glu Ile Ala Val Trp Thr Asn Leu Thr Glu Ala Arg Val
 35 40 45
 Arg Val Trp Phe Lys Asn Arg Arg Ala Lys Trp Arg Lys Arg Glu Arg
 50 55 60
 Asn Gln Gln Ala Glu Leu Cys Lys Asn Gly Phe Gly Pro Gln Phe Asn
 65 70 75 80
 Gly Leu Met Gln Pro Tyr Asp Asp Met Tyr Pro Gly Tyr Ser Tyr Asn
 85 90 95
 Asn Trp Ala Ala Lys Gly Leu Thr Ser Ala Ser Leu Ser Thr Lys Ser
 100 105 110
 Phe Pro Phe Phe Asn Ser Met Asn Val Asn Pro Leu Ser Ser Gln Ser
 115 120 125
 Met Phe Ser Pro Pro Asn Ser Ile Xaa Ser Met Ser Met Xaa Ser Ser
 130 135 140

4910

Met Val Pro Ser Ala Val Thr Gly Val Pro Gly Ser Ser Leu Asn Ser
 145 150 155 160

Leu Asn Asn Leu Asn Asn Leu Ser Ser Pro Xaa Leu Asn Ser Ala Val
 165 170 175

Pro Thr Xaa Ala Cys Pro Tyr Ala Pro Pro Thr Ser Ser Val Cys Leu
 180 185 190

Xaa Gly His Val Xaa Ser Ser Leu Ala Ser Leu Arg Leu Lys Ala Lys
 195 200 205

Gln Xaa
 210

<210> 5562
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 5562

Thr Leu Thr Val Gln Val Val His Cys Asn Glu Val Thr His Ile Cys
 1 5 10 15

Trp Leu His Lys Leu Gln Val Leu Leu Ser Gln Tyr Gly Thr Leu Asn
 20 25 30

Cys Asp Val Val Gln Gln Leu Pro Ala Ser Ser Gln Leu Ile Arg Cys
 35 40 45

Glu Tyr Phe Gly Leu Asp Leu Gln Pro Asp Ala Val Leu Gln Pro Lys
 50 55 60

Lys Lys Val Glu Pro Met Ile Lys Asn Cys Ser Gln Asp Glu Pro Gly
 65 70 75 80

Lys Lys Ser Ala Lys Leu Pro Trp Arg Ser Ala Gly Thr Leu Val Met
 85 90 95

Thr Gly Ile Thr Pro
 100

<210> 5563
 <211> 117
 <212> PRT
 <213> Homo sapiens

4911

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5563

Ile Pro Pro Ala Gln Leu Trp Gln Arg Leu Leu Ala Leu Val Ile Ser
 1 5 10 15

Ser Ile Ile Gln Ile His Tyr His Pro Asn Pro Ser Pro Ile Phe Gly
 20 25 30

Leu Gly Glu Lys Asn Met Asn Tyr Asp Asp Arg Thr Ser Ser Lys Pro
 35 40 45

Ser Pro Val Leu Ser Glu Tyr Pro Phe Trp Gly Cys Ile Pro Gln Lys
 50 55 60

Pro Ile Trp Gly Pro Ile Ser Met Tyr Thr Glu Leu Lys Phe Gln Val
 65 70 75 80

Pro Leu Cys Ile Lys Arg Ser Gln Asn Phe Gly Gln Ala Xaa Gly Thr
 85 90 95

Leu Lys Ser His Gln Cys Asn Tyr Thr Leu Glu Ile Ile Asn Pro Ser
 100 105 110

His Asp Tyr Ile Ser
 115

<210> 5564

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5564

Leu Pro Val Phe Glu Asp Val Gly Arg Val Cys Lys Tyr Ser Ala Phe
 1 5 10 15

Pro Leu Thr His Ala Gly Glu Asp Ala Ser Ser Leu Ala Pro Ala Val
 20 25 30

Arg Ala Gln Ile Ala Arg Val Lys Thr Ser Ser Leu Gly Arg Glu Val
 35 40 45

Cys Arg Gly Leu Glu Val Ile
 50 55

4912

<210> 5565

<211> 47

<212> PRT

<213> Homo sapiens

<400> 5565

Lys Leu Lys Glu Ile Lys Lys Leu Leu Glu Glu Asn Ala Gly Ile Asn
1 5 10 15

Leu Tyr Asp Leu Arg Leu Gly Ser Gly Phe Leu Asp Met Thr Pro Lys
20 25 30

Ala Lys Gln Gln Lys Lys Glu Asn Leu Lys Trp Met Ser Ser Glu
35 40 45

<210> 5566

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5566

Gly Pro Val Leu His Gln Arg Ile Leu Ile Ser Ala Ser Gly Val Gly
1 5 10 15

Glu Xaa Arg Xaa Ile Tyr Ile Gly Gln Asn Arg Gly Val Glu Gln Asp
20 25 30

Tyr Ser Ile Phe
35

<210> 5567

<211> 67

<212> PRT

<213> Homo sapiens

4913

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5567

Pro	Gly	Ala	Val	Val	Gly	Val	Xaa	Arg	Val	Met	Thr	Trp	Ser	Gly	Trp
1				5					10					15	

Ala	Trp	Ala	Asp	Val	His	Ile	Val	Cys	Thr	Leu	Asp	Pro	Trp	Pro	Arg
			20					25					30		

Arg	Thr	Gln	Ile	Leu	Thr	Ser	Arg	Asn	Phe	His	Leu	Met	Asn	Ile	Met
		35					40					45			

Arg	Ile	Gly	Gly	Lys	Glu	Asn	Ser	Leu	Tyr	Arg	Ile	Asn	Pro	Ser	Phe
	50					55					60				

Leu	Gln	Gly
65		

<210> 5568

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5568

Glu	Asn	Ala	Phe	Gln	Asp	Leu	Ser	Ser	Thr	His	Pro	Leu	Ser	Leu	Pro
1				5					10					15	

Gln	Pro	His	Ile	Trp	Gly	His	Asn	Ser	Thr	Cys	Val	Lys	Asp	Asn	Leu
			20					25					30		

Leu	Leu	Phe	Thr	Glu	Pro	Pro	Gly	Ile	Gln	Asp	Asn	Lys	Xaa	Leu	His
		35					40					45			

Xaa	Asp	Gln	Gln	Val	Ser	Phe	Ser	Ala	Pro	Ser	Phe	Ile	Thr	Pro	Phe
	50					55					60				

4914

Phe Pro Ser Glu Val His Thr His Pro Tyr Met Ala Ala Val Gly Ile
 65 70 75 80

Ser Thr Gly

<210> 5569

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5569

Met Val Leu Ser Pro Ser Gly Val Ser Lys Cys Ile Arg Lys Gln Asn
 1 5 10 15

Ser Val Val Ser His Ser Ser Leu Cys Ala Arg Cys Leu Arg Arg Gly
 20 25 30

Ser Tyr Arg Ser Pro Arg Xaa Asn Gln Ala His Leu Ser Leu Gly Val
 35 40 45

Gly Gln Ser Gly Lys Ala Phe Trp Lys Met
 50 55

<210> 5570

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5570

Ser His Thr Thr Lys Asn Thr Asp Phe Thr Asp Leu Val Leu Glu Asn
 1 5 10 15

4915

His Tyr Thr Asn Ser Asn Asn Asn Ala Pro Gly Thr Lys Gly Glu Glu
 20 25 30
 Met Ser Ser Arg Val Gly Ile Leu Phe Lys Cys Leu Val Phe Asn Lys
 35 40 45
 Asn Asn Tyr Lys Thr Gln Ser Lys Thr Arg Lys Tyr Gly Pro Tyr Pro
 50 55 60
 Gly Lys Asn Lys Gln Pro Ile Glu Ala Val Leu Glu Glu Val Asn Ile
 65 70 75 80
 Leu Asp Leu Leu Glu Asn Asp Phe Asn Xaa Ser Ile Ile Asn Met Phe
 85 90 95
 Xaa Lys Leu Lys Glu Ala Arg Cys Gly Gly Ser Arg Leu
 100 105

<210> 5571

<211> 101

<212> PRT

<213> Homo sapiens

<400> 5571

Asn Asp Asn Lys Gly Phe Arg Thr Ile Thr Ala Ser Ala Pro Gly Pro
 1 5 10 15
 Thr Pro Ser Ser Glu Arg Arg Ser Val Val Gly Asn Met Leu Ser Asn
 20 25 30
 Ser Val Thr Cys Tyr Arg Gly Ile Phe Gly Glu Arg Lys Ser Gln Cys
 35 40 45
 Gly Lys Leu His Cys Cys Leu Ile Leu Ile Ala Thr Ala Thr Ser Thr
 50 55 60
 Phe Ser Asn His His Pro Asp Ser Val Ser Ser His Gln His Gln Gly
 65 70 75 80
 Glu Thr Leu Tyr His Gln Lys Asp Tyr Asn Leu Leu Lys Ala Gln Met
 85 90 95
 Ile Ile Ser Ile Phe
 100

<210> 5572

4916

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5572

Asp Arg His Ala Leu Gln Ile Phe Leu Tyr Lys Ser Gly Ser Leu Phe
 1 5 10 15

Pro Ile Val Leu Thr Leu Arg Leu Ser Val Gly Leu Pro Ile Arg Phe
 20 25 30

Thr Ala Val Gln Val His Lys Met
 35 40

<210> 5573

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5573

Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His
 1 5 10 15

Ala Ser Ala Lys Ile Arg Thr Ala His Arg Arg Val Met Ile Leu Asn
 20 25 30

His Pro Asp Lys Gly Gly Ser Pro Tyr Val Ala Ala Lys Ile Asn Glu
 35 40 45

Ala Lys Asp Leu Leu Glu Thr Thr Thr Lys His
 50 55

<210> 5574

<211> 51

<212> PRT

<213> Homo sapiens

<400> 5574

Ser Lys Asp Leu Val Phe Phe Thr Gln His Val Ser Arg Ile His Lys
 1 5 10 15

Phe Tyr Cys Phe Ile Ala Val Ile Phe Ile Asp Val Tyr Phe Ile Val
 20 25 30

Gly Leu Tyr Asn Ile Leu Leu Arg Asn Thr Tyr Ile Tyr Asn Lys Leu
 35 40 45

4917

Tyr Ile Phe
50

<210> 5575

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5575

Tyr	Cys	Ser	Phe	Ser	Ser	Phe	Phe	Ala	Val	Ala	Ser	Ser	Ser	Leu	Val
1				5					10					15	

Lys	Thr	Leu	Lys	Lys	Asn	Thr	Ala	Leu	Pro	Trp	Glu	Ile	Ile	Thr	Leu
		20						25					30		

Pro	Asn	Thr	Pro	Leu	Val	Gly	Asn	Lys	Arg	Phe	Tyr	Gly	Thr	Xaa	Xaa
		35						40					45		

Lys	Lys	Xaa	Ser	Thr	Cys	Pro	Phe	Phe	Leu	Pro	Val
	50					55				60	

<210> 5576

<211> 72

<212> PRT

<213> Homo sapiens

<400> 5576

Ser	Ser	Gln	Ile	Lys	Pro	Pro	Glu	Ser	Pro	His	Tyr	Lys	Ile	Gln	Ser
1				5					10					15	

Tyr	His	Ala	Ser	Leu	Pro	Ser	Val	Tyr	Lys	Ile	Cys	Pro	Ser	Leu	Gln
		20						25					30		

4918

Leu Gly Glu Thr Asp Leu Gly Gln Thr Pro Val Ser Leu Leu Gly Cys
 35 40 45

Leu Ala Ile Asn Phe Ser Leu Tyr Lys Thr Pro Val Leu Gln Cys Leu
 50 55 60

Val Phe Gln Cys Glu Pro Gly Asn
 65 70

<210> 5577

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5577

Val Leu Asn Lys Ser Leu Leu Tyr Glu Asn Lys Gln Tyr Phe Leu Tyr
 1 5 10 15

Leu Ser Phe Gly Cys Ile Phe Pro Tyr Phe Val Ile Ser Phe Phe Leu
 20 25 30

Thr Phe Tyr Xaa Xaa Ile Leu Thr Leu Phe Leu Ser Phe Ala Ser Val
 35 40 45

Phe Pro Arg Arg Val Leu Trp Leu Lys Cys Ile Thr Cys Lys Ile Glu
 50 55 60

<210> 5578

<211> 43

<212> PRT

<213> Homo sapiens

<220>

4919

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5578

Met	Asp	Xaa	Gln	Thr	Asn	Gly	Thr	Lys	Leu	Arg	Ser	Gln	Ile	Glu	Ile
1				5				10					15		

Asn	Gln	Ser	Val	Asp	Leu	Leu	Ile	Tyr	Gly	Asn	Val	Phe	Cys	Glu	Ile
			20				25						30		

Tyr	Gln	Leu	Met	Gly	Lys	Arg	Leu	Phe	Lys	Thr
		35				40				

<210> 5579

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

4920

<220>
 <221> SITE
 <222> (130)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (133)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (136)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5579
 Thr Ser Gly Ile Gly Thr Ser Pro Ser Leu Arg Ser Leu Gln Ser Leu
 1 5 10 15
 Leu Gly Pro Ser Ser Lys Phe Arg His Ala Gln Gly Thr Val Leu His
 20 25 30
 Arg Asp Ser His Ile Thr Asn Leu Lys Gly Leu Asn Leu Thr Thr Pro
 35 40 45
 Gly Glu Ser Asp Gly Phe Cys Ala Asn Lys Leu Arg Val Ala Val Pro
 50 55 60
 Leu Leu Ser Ser Xaa Xaa Gln Val Ala Val Leu Glu Leu Arg Lys Pro
 65 70 75 80
 Gly Arg Leu Pro Asp Thr Ala Leu Pro Thr Leu Gln Asn Gly Ala Ala
 85 90 95
 Val Thr Asp Leu Ala Trp Asp Pro Phe Asp Pro His Arg Leu Ala Val
 100 105 110

4921

Ala Gly Glu Asp Ala Xaa Ile Arg Leu Trp Xaa Val Pro Ala Xaa Gly
 115 120 125

Xaa Xaa Arg Xaa Xaa His Xaa Xaa Xaa Asn Cys Ala Tyr Lys Ala
 130 135 140

<210> 5580

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5580

Ser Asn Ser Leu Gln Val Trp Gly Trp Gln Ile Leu Ala Pro Leu Lys
 1 5 10 15

Trp Ile Pro His Ala His Ala Ser Leu Phe Phe Ser Val Ala Arg Gly
 20 25 30

Xaa Met Asp Lys Pro Lys Leu Gln Leu Lys Thr Xaa His Arg Pro Gly
 35 40 45

Thr Val Thr His Ala Phe Asn Ile Ser Thr Leu Gly Xaa Gln Gly Gly
 50 55 60

Arg Ile Thr
 65

<210> 5581

<211> 66

<212> PRT

<213> Homo sapiens

4922

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5581

Gly	Leu	Pro	Lys	Ala	Gln	Gln	Glu	Gln	Leu	Leu	Leu	Ile	Leu	Gln	Xaa
1				5					10					15	

Pro	Xaa	Pro	Arg	Pro	Ala	Phe	His	Pro	Lys	Pro	His	Leu	Val	Ser	Met
			20					25					30		

Ser	Ile	Ser	Thr	Val	Trp	Pro	Ser	Cys	Asp	Cys	Ser	Leu	Ala	Ala	Thr
		35					40					45			

Pro	Ser	Val	Ile	Pro	His	Ser	Glu	Ser	Ser	Phe	Ser	Gly	Ser	Leu	Ala
	50					55					60				

Phe	Ser
65	

<210> 5582

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5582

Ser	Leu	Ile	Ser	Asp	Ala	Leu	Arg	Phe	Leu	Arg	Ser	Glu	Met	Ile	Lys
1					5				10					15	

Leu	Tyr	Ser	Leu	Val	Tyr	Trp	Tyr	Phe	Phe	Thr	Ser	Ser	Glu	Ile	Gly
			20					25					30		

Xaa	Met	Leu	Tyr	Val	Arg	Arg	Ala	Phe	Phe	Lys	Leu	Cys	Cys	Phe	Glu
		35					40					45			

His	Val	Tyr	Leu	Phe
	50			

4923

<210> 5583

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5583

Gln	Gly	Lys	Lys	Ser	Ala	Val	Cys	Leu	Val	Phe	Ile	Phe	Val	Phe	Thr
1				5					10					15	

Gln	Val	Gly	Leu	Leu	Phe	Glu	Thr	Phe	Phe	Leu	Asn	Lys	Arg	Ser	Tyr
			20					25					30		

Lys	Val	Phe	Thr	Phe	Ser	Pro	Ser	Lys	Asn	Pro	Ile	Phe	Leu	Glu	Phe
		35					40					45			

Gly	Leu	Ser	Ile	Ile	Ser	Gly	Ile	Lys	Glu
	50					55			

<210> 5584

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5584

Thr	Thr	Val	Asn	Ile	His	Val	Gly	Gly	Gly	Gly	Arg	Leu	Arg	Pro	Ala
1				5					10					15	

Lys	Ala	Gln	Val	Arg	Leu	Asn	His	Pro	Ala	Leu	Leu	Ala	Ser	Thr	Gln
			20					25					30		

Glu	Ser	Met	Gly	Leu	His	Arg	Ala	Gln	Gly	Leu	Leu	Met	Pro	Pro	Ser
		35					40					45			

Thr	Cys	Glu	Pro	Gly	His	Glu	Ala	Ser	Leu	Lys	Gln	Gly	Phe	Gln	Pro
	50					55					60				

Asp	Ala	Ile	Asp	Pro	Gln	Asn	Leu	Thr	Trp	Lys	Ser	Arg	His
	65					70				75			

<210> 5585

<211> 54

<212> PRT

<213> Homo sapiens

4924

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5585

Ile	Ser	Lys	Gln	Leu	Tyr	Phe	Phe	Ile	Gln	Ala	Cys	His	Cys	Glu	Pro
1				5				10						15	

Val	Leu	Ile	Val	Ser	Glu	Leu	Phe	Val	Xaa	Pro	Glu	Phe	Cys	Leu	Leu
			20					25					30		

Ile	Ser	Phe	Gln	Leu	His	Ser	Xaa	Ser	Phe	Phe	Asn	Cys	Val	Gly	Gly
		35					40					45			

Lys	Asn	Asn	Gly	Arg	Asn
	50				

<210> 5586

<211> 89

<212> PRT

<213> Homo sapiens

<400> 5586

Leu	Tyr	Ser	Phe	Ser	Ser	Leu	Leu	Pro	Leu	Ser	Pro	Arg	Trp	Lys	Lys
1				5				10						15	

Arg	Thr	Asn	Val	Glu	Thr	Pro	Glu	Gly	Val	Gln	Leu	Asp	Gln	Gly	Asp
			20					25					30		

Ile	Arg	His	Leu	Thr	Val	Phe	Ser	Val	Cys	Pro	Ser	Leu	Tyr	Ser	Asn
		35					40					45			

Val	Arg	Asn	Gly	Ser	Val	Phe	Phe	Phe	Thr	Phe	Ile	Gly	Ser	Ser	Tyr
	50					55					60				

Phe	Ser	Thr	Leu	Phe	Leu	Met	Cys	Ser	Phe	Phe	Asn	Trp	Leu	Val	Phe
65					70					75					80

Pro	Tyr	Tyr	Leu	Gln	Leu	Tyr	Gly	Leu
					85			

4925

<210> 5587

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5587

Gln	Lys	Asn	Pro	Leu	Met	Val	Cys	Phe	Leu	Tyr	Trp	Ala	Thr	Gln	Trp
1				5					10					15	

Cys	Xaa	Lys	Val	Tyr	Met	Lys	Pro	Gln	Cys	Lys	Gln	Gly	Leu	Ser	Ser
			20					25					30		

Gln	Asp	Ile	Asn	Phe	Asp	Arg	Lys	Xaa	Cys	Val	Phe	Met	Cys	Val	Cys
		35					40					45			

Val	Ser	Gly	Cys	Asn
				50

<210> 5588

<211> 46

<212> PRT

<213> Homo sapiens

<400> 5588

Phe	Cys	Lys	Tyr	Asn	Asn	Asn	Ser	Asn	Asn	Thr	Ile	Leu	Ser	Phe	Lys
1				5					10					15	

Lys	Leu	Pro	Ile	His	Phe	Ser	Asn	Leu	Thr	Val	Ser	Gly	Gly	Val	Tyr
			20					25					30		

Val	Cys	Leu	Cys	Phe	His	Leu	Cys	Asn	Gly	Cys	Leu	Ile	Ile
		35					40					45	

<210> 5589

<211> 58

<212> PRT

<213> Homo sapiens

4926

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5589

Cys	Leu	Thr	Met	Ala	Ser	Glu	His	Val	Lys	Cys	Thr	Tyr	Ile	Leu	Gln
1				5					10					15	

Pro	Lys	Thr	Val	Cys	Ile	Lys	Leu	Gln	Pro	Ser	Ile	Ile	Lys	Phe	Xaa
			20					25					30		

Val	Gln	Phe	Gln	Asp	Gly	Asn	Gln	Gly	Phe	Phe	Phe	Arg	Asp	Val	Lys
		.35					40					45			

Lys	Ser	Pro	Ser	Xaa	Ile	Ile	Leu	Asn	Leu
	50					55			

<210> 5590

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5590

Gln	Leu	Asn	Phe	Met	Asn	Met	Phe	Val	Lys	Leu	Leu	Phe	Tyr	Ile	Ser
1				5					10					15	

Cys	Gln	Ile	Glu	Lys	Phe	Ile	Ser	Ser	Leu	Leu	Tyr	Leu	Trp	Lys	Tyr
			20					25					30		

Lys	Pro	Phe	Tyr	Arg	Lys	Lys	Ser	Ser	Lys	Thr	Ile	Lys	Trp	Ile	Ser
			35				40					45			

4927

Ala Cys Phe Val Ser His Cys Leu Gln Ile Leu Trp Leu Ser Xaa Gly
 50 55 60

His Arg Ala Leu Val Gly Cys Thr Gly Xaa Pro Ile Phe Pro
 65 70 75

<210> 5591

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5591

Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Xaa
 1 5 10 15

Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
 20 25 30

Gly Thr Ala Lys Val Tyr Gly Met Val Cys
 35 40

<210> 5592

<211> 502

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5592

Pro Val Ala Ala Val Ser Gly Arg Ala Val Gly Gly Ser Arg Gly Gly
 1 5 10 15

Gly Arg Gly Gly Met Ala Ala Ala Ala Ala Gly Ala Gly Ser Gly Pro
 20 25 30

4928

Trp Ala Ala Gln Glu Lys Gln Phe Pro Pro Ala Leu Leu Ser Phe Phe
 35 40 45
 Ile Tyr Asn Pro Arg Phe Gly Pro Arg Glu Gly Gln Glu Glu Asn Lys
 50 55 60
 Ile Leu Phe Tyr His Pro Asn Glu Val Glu Lys Asn Glu Lys Ile Arg
 65 70 75 80
 Asn Val Gly Leu Cys Glu Ala Ile Val Gln Phe Thr Arg Thr Phe Ser
 85 90 95
 Pro Ser Lys Pro Ala Lys Ser Leu His Thr Gln Lys Asn Arg Gln Phe
 100 105 110
 Phe Asn Glu Pro Glu Glu Asn Phe Trp Met Val Met Val Val Arg Xaa
 115 120 125
 Pro Ile Ile Glu Lys Gln Ser Lys Asp Gly Lys Pro Val Ile Glu Tyr
 130 135 140
 Gln Glu Glu Glu Leu Leu Asp Lys Val Tyr Ser Ser Val Leu Arg Gln
 145 150 155 160
 Cys Tyr Ser Met Tyr Lys Leu Phe Asn Gly Thr Phe Leu Lys Ala Met
 165 170 175
 Glu Asp Gly Gly Val Lys Leu Leu Lys Glu Arg Leu Glu Lys Phe Phe
 180 185 190
 His Arg Tyr Leu Gln Thr Leu His Leu Gln Ser Cys Asp Leu Leu Asp
 195 200 205
 Ile Phe Gly Gly Ile Ser Phe Phe Pro Leu Asp Lys Met Thr Tyr Leu
 210 215 220
 Lys Ile Gln Ser Phe Ile Asn Arg Met Glu Glu Ser Leu Asn Ile Val
 225 230 235 240
 Lys Tyr Thr Ala Phe Leu Tyr Asn Asp Gln Leu Ile Trp Ser Gly Leu
 245 250 255
 Glu Gln Asp Asp Met Arg Ile Leu Tyr Lys Tyr Leu Thr Thr Ser Leu
 260 265 270
 Phe Pro Arg His Ile Glu Pro Glu Leu Ala Gly Arg Asp Ser Pro Ile
 275 280 285
 Arg Ala Glu Met Pro Gly Asn Leu Gln His Tyr Gly Arg Phe Leu Thr
 290 295 300

4929

Gly Pro Leu Asn Leu Asn Asp Pro Asp Ala Lys Cys Arg Phe Pro Lys
 305 310 315 320
 Ile Phe Val Asn Thr Asp Asp Thr Tyr Glu Glu Leu His Leu Ile Val
 325 330 335
 Tyr Lys Ala Met Ser Ala Ala Val Cys Phe Met Ile Asp Ala Ser Val
 340 345 350
 His Pro Thr Leu Asp Phe Cys Arg Arg Leu Asp Ser Ile Val Gly Pro
 355 360 365
 Gln Leu Thr Val Leu Ala Ser Asp Ile Cys Glu Gln Phe Asn Ile Asn
 370 375 380
 Lys Arg Met Ser Gly Ser Glu Lys Glu Pro Gln Phe Lys Phe Ile Tyr
 385 390 395 400
 Phe Asn His Met Asn Leu Ala Glu Lys Ser Thr Val His Met Arg Lys
 405 410 415
 Thr Pro Ser Val Ser Leu Thr Ser Val His Pro Asp Leu Met Lys Ile
 420 425 430
 Leu Gly Asp Ile Asn Ser Asp Phe Thr Arg Val Asp Glu Asp Glu Glu
 435 440 445
 Ile Ile Val Lys Ala Met Ser Asp Tyr Trp Val Val Gly Lys Lys Ser
 450 455 460
 Asp Arg Arg Glu Leu Tyr Val Ile Leu Asn Gln Lys Asn Ala Asn Leu
 465 470 475 480
 Ile Glu Val Asn Glu Glu Val Lys Lys Leu Cys Ala Thr Gln Phe Asn
 485 490 495
 Asn Ile Phe Phe Leu Asp
 500

<210> 5593

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

4930

<400> 5593

```

Asn Pro Gly Ile Leu Ser Pro Ser Asn Leu Lys Val Phe Lys Leu Ile
 1              5              10              15

Leu Phe Tyr Val Phe Leu Ala Val Tyr Val Leu Leu Lys Ser Leu Ser
      20              25              30

Phe Cys Val Lys Ile Cys Leu Ser Leu Leu His Phe Thr Ala Ser Lys
      35              40              45

Ile Lys Asn Thr Tyr Ile Leu Leu Xaa Ile Asp Ala Ser Lys
      50              55              60

```

<210> 5594

<211> 453

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (327)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5594

```

Ser Ile Phe Arg Val Ser Pro Gly Phe Arg Ile Ala Met Ile Ile Pro
 1              5              10              15

Ser Leu Glu Glu Leu Asp Ser Leu Lys Tyr Ser Asp Leu Gln Asn Leu
      20              25              30

Ala Lys Ser Leu Gly Leu Arg Ala Asn Leu Arg Ala Thr Lys Leu Leu
      35              40              45

Lys Ala Leu Lys Gly Tyr Ile Lys His Glu Ala Arg Lys Gly Asn Glu
      50              55              60

Asn Gln Asp Glu Ser Gln Thr Ser Ala Ser Ser Cys Asp Glu Thr Glu
      65              70              75              80

Ile Gln Ile Ser Asn Gln Glu Glu Ala Glu Arg Gln Pro Leu Gly His
      85              90              95

Val Thr Lys Thr Arg Arg Arg Cys Lys Thr Val Arg Val Asp Pro Asp
      100              105              110

Ser Gln Gln Asn His Ser Glu Ile Lys Ile Ser Asn Pro Thr Glu Phe
      115              120              125

```


4931

Gln	Asn	His	Glu	Lys	Gln	Glu	Ser	Gln	Asp	Leu	Arg	Ala	Thr	Ala	Lys	130	135	140	
Val	Pro	Ser	Pro	Pro	Asp	Glu	His	Gln	Glu	Ala	Glu	Asn	Ala	Val	Ser	145	150	155	160
Ser	Gly	Asn	Arg	Asp	Ser	Lys	Val	Pro	Ser	Glu	Gly	Lys	Lys	Ser	Leu	165	170	175	
Tyr	Thr	Asp	Glu	Ser	Ser	Lys	Pro	Gly	Lys	Asn	Lys	Arg	Thr	Ala	Ile	180	185	190	
Thr	Thr	Pro	Asn	Phe	Lys	Lys	Leu	His	Glu	Ala	His	Phe	Lys	Glu	Met	195	200	205	
Glu	Ser	Ile	Asp	Gln	Tyr	Ile	Glu	Arg	Lys	Lys	Lys	His	Phe	Glu	Glu	210	215	220	
His	Asn	Ser	Met	Asn	Glu	Leu	Lys	Gln	Gln	Pro	Ile	Asn	Lys	Gly	Gly	225	230	235	240
Val	Arg	Thr	Pro	Val	Pro	Pro	Arg	Gly	Arg	Leu	Ser	Val	Ala	Ser	Thr	245	250	255	
Pro	Ile	Ser	Gln	Arg	Arg	Ser	Gln	Gly	Arg	Ser	Cys	Gly	Pro	Ala	Ser	260	265	270	
Gln	Ser	Thr	Leu	Gly	Leu	Lys	Gly	Ser	Leu	Lys	Arg	Ser	Ala	Ile	Ser	275	280	285	
Ala	Ala	Lys	Thr	Gly	Val	Arg	Phe	Ser	Ala	Ala	Thr	Lys	Asp	Asn	Glu	290	295	300	
His	Lys	Arg	Ser	Leu	Thr	Lys	Thr	Pro	Ala	Arg	Lys	Ser	Ala	His	Val	305	310	315	320
Thr	Val	Ser	Gly	Gly	Thr	Xaa	Lys	Gly	Glu	Ala	Val	Leu	Gly	Thr	His	325	330	335	
Lys	Leu	Lys	Thr	Ile	Thr	Gly	Asn	Ser	Ala	Ala	Val	Ile	Thr	Pro	Phe	340	345	350	
Lys	Leu	Thr	Thr	Glu	Ala	Thr	Gln	Thr	Pro	Val	Ser	Asn	Lys	Lys	Pro	355	360	365	
Val	Phe	Asp	Leu	Lys	Ala	Ser	Leu	Ser	Arg	Pro	Leu	Asn	Tyr	Glu	Pro	370	375	380	
His	Lys	Gly	Lys	Leu	Lys	Pro	Trp	Gly	Gln	Ser	Lys	Glu	Asn	Asn	Tyr	385	390	395	400

4932

Leu Asn Gln His Val Asn Arg Ile Asn Phe Tyr Lys Lys Thr Tyr Lys
 405 410 415
 Gln Pro His Leu Gln Thr Lys Glu Glu Gln Arg Lys Lys Arg Glu Gln
 420 425 430
 Glu Arg Lys Glu Lys Lys Ala Lys Val Leu Gly Met Arg Arg Gly Leu
 435 440 445
 Ile Leu Ala Glu Asp
 450

<210> 5595

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5595

Leu Leu Lys Lys Lys Ser Gly Glu Glu Arg Tyr Leu Ser Asn Leu Leu
 1 5 10 15

Asn Leu Tyr Lys Thr Leu His Cys Arg Gly Gly Ala Thr Pro Lys Tyr
 20 25 30

Phe His Asp Leu His Gly Leu Ile Arg Phe Phe Phe Phe Tyr Thr Ile
 35 40 45

Leu Ala Thr Phe Ser Met Glu Lys Arg Gln Phe Thr Gln Phe Pro Xaa
 50 55 60

<210> 5596

<211> 307

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

4933

<220>

<221> SITE

<222> (300)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5596

His	Thr	Lys	Lys	Met	Ser	Met	Leu	Lys	Pro	Ser	Gly	Leu	Lys	Ala	Pro
1				5					10					15	

Thr	Lys	Ile	Leu	Lys	Pro	Gly	Ser	Thr	Ala	Leu	Lys	Thr	Pro	Thr	Ala
			20					25					30		

Val	Val	Ala	Pro	Val	Glu	Lys	Thr	Ile	Ser	Ser	Glu	Lys	Ala	Ser	Ser
		35					40					45			

Thr	Pro	Ser	Ser	Glu	Thr	Gln	Glu	Glu	Phe	Val	Asp	Asp	Phe	Arg	Val
	50					55					60				

Gly	Glu	Arg	Val	Trp	Val	Asn	Gly	Asn	Lys	Pro	Gly	Phe	Ile	Gln	Phe
65					70					75					80

Leu	Gly	Glu	Thr	Gln	Phe	Ala	Pro	Gly	Gln	Trp	Ala	Gly	Ile	Val	Leu
				85					90					95	

Asp	Glu	Pro	Ile	Gly	Lys	Asn	Asp	Gly	Ser	Val	Ala	Gly	Val	Arg	Tyr
			100					105					110		

Phe	Gln	Cys	Glu	Pro	Leu	Lys	Gly	Ile	Phe	Thr	Arg	Pro	Ser	Lys	Leu
		115					120					125			

Thr	Arg	Lys	Val	Gln	Ala	Glu	Asp	Glu	Ala	Asn	Gly	Leu	Gln	Thr	Thr
	130					135					140				

Pro	Ala	Xaa	Arg	Ala	Thr	Ser	Pro	Leu	Cys	Thr	Ser	Thr	Ala	Ser	Met
145					150					155					160

Val	Ser	Ser	Ser	Pro	Ser	Thr	Pro	Ser	Asn	Ile	Pro	Gln	Lys	Pro	Ser
				165					170					175	

Gln	Pro	Ala	Ala	Lys	Glu	Pro	Ser	Ala	Thr	Pro	Pro	Ile	Ser	Asn	Leu
		180						185					190		

Thr	Lys	Thr	Ala	Ser	Glu	Ser	Ile	Ser	Asn	Leu	Ser	Glu	Ala	Gly	Ser
		195					200					205			

Ile	Lys	Lys	Gly	Glu	Arg	Glu	Leu	Lys	Ile	Gly	Asp	Arg	Val	Leu	Val
	210					215					220				

Gly	Gly	Thr	Lys	Ala	Gly	Val	Val	Arg	Phe	Leu	Gly	Glu	Thr	Asp	Phe
225					230					235					240

4934

Ala Lys Gly Glu Trp Cys Gly Val Glu Leu Asp Glu Pro Leu Gly Lys
 245 250 255

Asn Asp Gly Ala Val Ala Gly Thr Arg Tyr Phe Gln Cys Gln Pro Lys
 260 265 270

Tyr Gly Leu Phe Ala Pro Val His Lys Val Thr Lys Ile Gly Phe Pro
 275 280 285

Ser Thr Thr Pro Ala Lys Ala Lys Ala Asn Ala Xaa Gly Glu Leu Trp
 290 295 300

Arg Pro Arg
 305

<210> 5597

<211> 118

<212> PRT

<213> Homo sapiens

<400> 5597

Asn Gly Gly Gly Gln His Cys Cys Trp Arg Asn Arg Met Pro His Pro
 1 5 10 15

Trp Trp Val Leu His Thr Val Ser Gly Gly Gln Val Ser Cys Gln Pro
 20 25 30

Pro Pro Arg Asn Ser Pro Pro Ser Glu Ala Thr Lys Thr Ser Arg Val
 35 40 45

Ser Gln Ser Ala Ile Leu Arg Lys Val Leu Arg Gly Thr Asp Lys Val
 50 55 60

Arg Arg Glu Ser Cys Gly Leu Glu Ala Ala Arg Asn Lys Pro Ser Arg
 65 70 75 80

Arg Arg Gly Ile Pro Ala Gly Gly Met Gly Gly Ala Gly Ala Trp Glu
 85 90 95

Met Arg Thr Gly Leu Val Met Val Cys Gly Arg Gln Leu Leu Arg Trp
 100 105 110

Arg Ala Gly Gly Arg Gly
 115

<210> 5598

4935

<211> 28

<212> PRT

<213> Homo sapiens

<400> 5598

Gln Tyr Phe Leu Lys Ile Ile Thr Tyr Ile Ile Val Thr Lys His Leu
1 5 10 15

Cys Gln Ile Arg Thr Ser Ser Thr Glu Ala Ala Val
20 25

<210> 5599

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5599

Lys Phe Trp Arg Leu Gly Xaa Leu Arg Ser Arg Ser Gln Gln Val Trp
1 5 10 15

Cys Leu Ala Arg Ala His Ser Ser Leu Pro Ser Cys Cys Val Thr Ala
20 25 30

Trp Trp Glu Gly Gln Ala Ser Ser His Gly Leu Phe Tyr Ser Gly Pro
35 40 45

Xaa Ser Ile Gly Glu Gly Ser Ala Ile Ile Thr Ser Ser Pro Arg His
50 55 60

Leu Gln Gly
65

<210> 5600

<211> 50

<212> PRT

<213> Homo sapiens

4936

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5600

Xaa	Ser	Val	His	Thr	Leu	Tyr	Arg	Asn	Ser	Leu	Tyr	Ser	Ile	Pro	Val
1				5				10					15		

Glu	Gly	His	Phe	Asn	Pro	His	Ser	Ile	Pro	Ser	Val	Leu	Arg	Thr	Ser
		20					25					30			

Ser	Lys	Ala	Ala	Cys	Ser	Ser	Ser	Ser	Val	Val	Ala	Thr	Leu	Asp	Leu
		35					40					45			

His	Val
	50

<210> 5601

<211> 51

<212> PRT

<213> Homo sapiens

<400> 5601

Gly	Asp	Cys	Gly	Lys	Gly	Thr	Val	Tyr	Lys	Ala	Val	Gly	Met	Tyr	Arg
1				5				10					15		

Lys	Ala	Gln	Gly	Ile	Gly	Gln	Gly	Ala	Gly	Leu	Phe	Ile	Val	Ile	Phe
		20					25					30			

Thr	Ser	Gly	Leu	Ile	Leu	Gly	Gly	Gly	Gly	Val	Leu	Pro	Gly	Thr	Arg
		35				40						45			

Pro	Tyr	Gly
		50

<210> 5602

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4937

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5602

Lys	Gln	Phe	Ala	Ser	Gly	Asn	Arg	Thr	Ala	Gly	Ala	Val	Phe	Leu	Gln
1				5				10						15	

Gln	Gln	Thr	Lys	His	Arg	Gly	Arg	Thr	Gln	Ala	Ser	Thr	Glu	Gln	Ala
			20					25					30		

Glu	Thr	Asp	Asp	Asn	Met	Asp	Thr	Lys	Ser	Ile	Leu	Glu	Glu	Leu	Leu
		35					40					45			

Leu	Lys	Arg	Ser	Gln	Leu	Leu	Glu	Met	Cys	Tyr	Asp	Val	Cys	Glu	Gly
	50					55					60				

Met	Ala	Phe	Leu	Glu	Ser	His	Gln	Phe	Ile	His	Arg	Asp	Leu	Ala	Ala
65						70				75					80

Arg	Asn	Cys	Leu	Val	Asp	Arg	Asp	Leu	Cys	Val	Lys	Val	Ser	Asp	Phe
				85					90					95	

Gly	Met	Thr	Arg	Tyr	Val	Leu	Asp	Asp	Gln	Tyr	Val	Ser	Ser	Val	Gly
			100					105					110		

Thr	Lys	Phe	Pro	Val	Lys	Trp	Ser	Ala	Pro	Xaa	Val	Phe	His	Tyr	Phe
		115					120					125			

Lys	Tyr	Ser	Ser	Lys	Ser	Xaa	Arg	Met	Gly	Ile	Trp	Asp	Pro	Asp	
	130					135					140				

<210> 5603

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5603

Asn	Phe	Val	Phe	Leu	Val	Glu	Lys	Gly	Phe	Leu	His	Val	Gly	Gln	Xaa
1				5					10					15	

Gly	Leu	Glu	Leu	Pro	Ile	Ser	Gly	Asp	Pro	Pro	Ala	Ser	Gln	Ser	Ala
			20					25					30		

4938

Gly Ile Thr Gly Val Ser Thr Thr Pro Arg Leu
 35 40

<210> 5604

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5604

Val Gly Val Ser Ser Gln Leu Lys Lys Lys Xaa Asn Glu Ile Gly Ser
 1 5 10 15

Arg Asn Glu Lys Gly Glu Arg Glu Arg Lys Lys Lys Met Asp Val Gly
 20 25 30

Asn Phe Val Ala Cys Ser Leu Trp Ile Leu Gln Asn Tyr His Cys Gly
 35 40 45

Tyr Cys Leu Thr Trp Leu Leu Leu Ala Met Lys Asn Gln Glu His Phe
 50 55 60

His Tyr His Phe Leu Thr Ile His Gln Pro Gln Phe Leu Gly Ile Xaa
 65 70 75 80

Leu Lys Phe

<210> 5605

<211> 429

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

4939

<400> 5605

Val	Ser	Gln	Ala	Thr	Asp	Val	Glu	Val	Gly	Thr	Asp	Leu	Val	Pro	Ser	1	5	10	15
Val	Thr	Val	Lys	Val	Thr	Leu	Gln	Asn	Arg	Val	Xaa	Leu	Gln	Lys	Ala	20	25	30	
Lys	Leu	Ser	Val	Tyr	Val	Gln	Pro	Pro	Leu	Glu	Leu	Thr	Cys	Asp	Gln	35	40	45	
Phe	Thr	Phe	Glu	Phe	Met	Asn	Arg	Asn	Pro	Asp	Gly	Ile	Pro	Arg	Val	50	55	60	
Ile	Gln	Cys	Lys	Phe	Arg	Leu	Pro	Leu	Lys	Leu	Ile	Cys	Leu	Pro	Gly	65	70	75	80
Gln	Pro	Ser	Lys	Thr	Ala	Ser	His	Lys	Ile	Thr	Ile	Asp	Thr	Asn	Lys	85	90	95	
Ser	Pro	Val	Ser	Leu	Leu	Ser	Leu	Phe	Pro	Gly	Phe	Ala	Ser	Gln	Ser	100	105	110	
Asp	Asp	Asp	Gln	Val	Asn	Val	Met	Gly	Phe	His	Phe	Leu	Gly	Gly	Ala	115	120	125	
Arg	Ile	Thr	Val	Leu	Ala	Ser	Lys	Thr	Ser	Gln	Arg	Tyr	Arg	Ile	Gln	130	135	140	
Ser	Glu	Gln	Phe	Glu	Asp	Leu	Trp	Leu	Ile	Thr	Asn	Glu	Leu	Ile	Leu	145	150	155	160
Arg	Leu	Gln	Glu	Tyr	Phe	Glu	Lys	Gln	Gly	Val	Lys	Asp	Phe	Ala	Cys	165	170	175	
Ser	Phe	Ser	Gly	Ser	Ile	Pro	Leu	Gln	Glu	Tyr	Phe	Glu	Leu	Ile	Asp	180	185	190	
His	His	Phe	Glu	Leu	Arg	Ile	Asn	Gly	Glu	Lys	Leu	Glu	Glu	Leu	Leu	195	200	205	
Ser	Glu	Arg	Ala	Val	Gln	Phe	Arg	Ala	Ile	Gln	Arg	Arg	Leu	Leu	Ala	210	215	220	
Arg	Phe	Lys	Asp	Lys	Thr	Pro	Ala	Pro	Leu	Gln	His	Leu	Asp	Thr	Leu	225	230	235	240
Leu	Asp	Gly	Thr	Tyr	Lys	Gln	Val	Ile	Ala	Leu	Ala	Asp	Ala	Val	Glu	245	250	255	
Glu	Asn	Gln	Gly	Asn	Leu	Phe	Gln	Ser	Phe	Thr	Arg	Leu	Lys	Ser	Ala	260	265	270	

4940

Thr His Leu Val Ile Leu Leu Ile Ala Leu Trp Gln Lys Leu Ser Ala
 275 280 285
 Asp Gln Val Ala Ile Leu Glu Ala Ala Phe Leu Pro Leu Gln Glu Asp
 290 295 300
 Thr Gln Glu Leu Gly Trp Glu Glu Thr Val Asp Ala Ala Ile Ser His
 305 310 315 320
 Leu Leu Lys Thr Cys Leu Ser Lys Ser Ser Lys Glu Gln Ala Leu Asn
 325 330 335
 Leu Asn Ser Gln Leu Asn Ile Pro Lys Asp Thr Ser Gln Leu Lys Lys
 340 345 350
 His Ile Thr Leu Leu Cys Asp Arg Leu Ser Lys Gly Gly Arg Leu Cys
 355 360 365
 Leu Ser Thr Asp Ala Ala Ala Pro Gln Thr Met Val Met Pro Gly Gly
 370 375 380
 Cys Thr Thr Ile Pro Glu Ser Asp Leu Glu Glu Arg Ser Val Glu Gln
 385 390 395 400
 Asp Ser Thr Glu Leu Phe Thr Asn His Arg His Leu Thr Ala Glu Thr
 405 410 415
 Pro Arg Pro Glu Val Ser Pro Leu Gln Gly Val Ser Glu
 420 425

<210> 5606

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5606

Asn Ile Thr Thr Met Asn Pro Thr Ser His Cys Lys Asp Cys Val Leu
 1 5 10 15

Tyr Phe Asp Leu Ser Ser Gly Ile Gly Asp Thr Leu Phe Gly His His
 20 25 30

Glu Gly Thr Met Gln Asn Pro Ser Phe Xaa Asn Ser Phe Leu Ser Ser

4941

35

40

45

Ile Glu Asp Pro Lys Asn Gln Thr Phe Arg Val
 50 55

<210> 5607

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5607

Lys Pro Gly His Thr Ala Gly Asp Glu Trp Lys Ala Ser Glu Thr Ser
 1 5 10 15

Trp Val Phe Thr Ala Ile Pro Arg Arg Ser His Tyr His Leu Ser Cys
 20 25 30

Val Ser Cys Glu Ile Ser Ser Ser Ile Arg Phe Ser Arg Ser Thr Asn
 35 40 45

Pro Phe Gly Thr Val Cys Glu Gly Ser Lys Leu Arg Ile Ser Tyr Glu
 50 55 60

Asn Leu Ile Pro Asp Asp Leu Leu Leu Ser Pro Thr Thr Pro Arg Trp
 65 70 75 80

Asp His Leu Val Ala Gly Lys Gln Ala Gln Ala Pro Thr Asp Ser Xaa
 85 90 95

Leu

<210> 5608

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5608

Gln Arg Lys Arg Glu Glu Gly Arg Leu Asp Thr Glu Arg Cys Leu
 1 5 10 15

Ala Arg Gly Ser Gln Ser Gly Val Gln Pro Leu Gly Gly Pro Thr Pro

4942

20 25 30
Gly Glu Asp His Leu Pro Thr Ser Ser Ile Pro Thr Leu Pro Ala Pro
35 40 45
His Pro Ser Cys
50

<210> 5609

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5609

Ala Xaa Thr Asn Phe Thr Gln Glu Xaa Ala Met Thr Met Ile Thr Pro
1 5 10 15

Ser Ser Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr
20 25 30

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Arg Gln Arg Leu
35 40 45

Gln

<210> 5610

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4943

<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5610
Leu Ala Lys Glu Val Lys Pro Arg Gly Phe Pro Gly Gly Lys Ile Phe
1 5 10 15
Pro Pro Gly Gly Xaa Xaa Gly Asn Pro Pro Thr Gly Pro Val Xaa Pro
20 25 30
Gly Val Pro Lys Phe Lys Thr Pro Lys Phe
35 40

<210> 5611
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5611
His Ala Gln Gly Glu Ala Arg Val Gln Pro Leu Arg Gly Leu Leu Gln
1 5 10 15
Glu Arg Gly Gly Gln Gln Pro Trp Gly Arg Gly Arg Pro Arg Gly Gly

4944

20 25 30
 Gly His Gln Gly Thr Ala Arg Trp Ala Ser Ser Cys Pro Xaa Ser Trp
 35 40 45
 Ala Arg Ser Lys Ala Arg Xaa Asp Leu Leu Ala Trp Gln Pro Xaa Pro
 50 55 60
 Gly Ala Arg Ile Ala Ala Pro Val Ile Gln Asn Pro Ala Glu Gln Xaa
 65 70 75 80
 Pro Cys Ser Cys Ala
 85

<210> 5612
 <211> 91
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5612
 Thr Lys Phe His Phe Val Cys Val Cys Val His Val Cys Val Ser Thr
 1 5 10 15
 Gly Gly Leu Cys Phe Ile Leu Cys Phe Phe Asp Ser Cys Ala Thr Ser
 20 25 30
 Leu Pro His Ser Pro Lys Lys Asp Lys Thr Lys Leu Ser Thr Asn Pro
 35 40 45
 His Ile Xaa Val Cys Leu Ser Xaa Thr Leu Thr Thr Val Pro Ile Ile
 50 55 60
 Met Ser Ser Tyr Ile Pro Cys Lys Ile Trp Val Val Ser Tyr Thr Ala
 65 70 75 80

4945

Gly Leu His Leu Thr Leu Glu Gly Lys Lys Xaa
85 90

<210> 5613

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5613

Asn Ser Glu Lys Glu Gln Trp Leu Cys Ser Phe Leu Ala Asn Xaa Leu
1 5 10 15

Gln Lys Glu Ser Thr Trp Thr Ser Val Pro Gly Val Glu Ile Leu Arg
20 25 30

Gly Xaa Glu Leu Val Gly Glu His Phe Pro Thr Trp Leu Arg Gln Gly
35 40 45

Phe Xaa Trp Gly Arg Gly Arg Xaa Tyr Ser Gly Gly Xaa Ser Pro Pro
50 55 60

Arg Arg His His Thr Phe Pro Pro Gly Val Pro Gln Gly Pro Arg
65 70 75

4946

<210> 5614

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (215)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5614

Leu	Ser	Phe	Phe	Ser	Leu	Thr	Ala	Ser	Tyr	Ser	Pro	Ile	Gln	Pro	His
1				5					10					15	

Ser	Leu	Ile	Lys	His	Gln	Gln	Ile	Pro	Leu	His	Ser	Pro	Pro	Ser	Lys
			20					25					30		

Val	Ser	His	His	Gln	Leu	Ile	Leu	Gln	Gln	Gln	Gln	Gln	Gln	Ile	Gln
		35					40						45		

Pro	Ile	Thr	Leu	Gln	Asn	Ser	Thr	Gln	Asp	Pro	Pro	Pro	Ser	Gln	His
	50					55					60				

Cys	Ile	Pro	Leu	Gln	Asn	His	Gly	Leu	Pro	Pro	Ala	Pro	Ser	Asn	Ala
65					70					75					80

Gln	Ser	Gln	His	Cys	Ser	Pro	Ile	Gln	Ser	His	Pro	Ser	Pro	Leu	Thr
				85					90					95	

Val	Ser	Pro	Asn	Gln	Ser	Gln	Ser	Ala	Gln	Gln	Ser	Val	Val	Val	Ser
			100					105					110		

Pro	Pro	Pro	Pro	His	Ser	Pro	Ser	Gln	Ser	Pro	Thr	Ile	Ile	Ile	His
		115					120					125			

Pro	Gln	Ala	Leu	Ile	Gln	Pro	His	Pro	Leu	Val	Ser	Ser	Ala	Leu	Gln
	130					135					140				

Pro	Gly	Pro	Asn	Leu	Gln	Gln	Ser	Thr	Ala	Asn	Gln	Val	Gln	Ala	Thr
145					150					155					160

Ala	Gln	Leu	Asn	Leu	Pro	Ser	His	Leu	Pro	Leu	Pro	Ala	Ser	Pro	Val
			165						170					175	

Val	His	Ile	Gly	Pro	Val	Gln	Gln	Ser	Ala	Leu	Val	Ser	Pro	Gly	Gln
			180					185					190		

Gln	Ile	Val	Ser	Pro	Ser	His	Gln	Gln	Tyr	Ser	Ser	Leu	Gln	Ser	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4947

195 200 205
 Pro Ile Pro Ile Ala Ser Xaa Pro Gln Met Ser
 210 215

<210> 5615
 <211> 26
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5615
 Pro Ser Arg Leu Leu Xaa Pro Leu Ile Arg Val Ser Ile Lys Leu Lys
 1 5 10 15

Leu Arg Pro Asp Arg Arg Thr Ala Ser Xaa
 20 25

<210> 5616
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 5616
 Tyr Arg Ala Thr Phe Leu Asn Val Ser Asp Val Val Arg Pro Ser His
 1 5 10 15

Thr Ser Ala Val Ser Phe Ser Ala Ser Leu Gly Leu Ala Phe Cys Ser
 20 25 30

Ser Val Pro His Thr Met Ile Pro Leu Gly Gln Ala Phe Ala Cys Ala
 35 40 45

Val Ser Pro Val Lys Leu Thr Ser Leu Pro Leu Trp Ala Gln Ile Pro
 50 55 60

Ala Gln Val Ala Gly Val Arg Ser Ser Arg Gly Gly Glu Ser Ser Trp
 65 70 75 80

4948

Arg Ala Gly Ser Ile Val Arg Arg Lys Gly His Gly Gln Asn Pro Gly
85 90 95

Glu His Arg

<210> 5617

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5617

Gln Val Leu Cys Lys Cys Leu Pro Ser Leu Gln Val Pro Ala Thr Cys
1 5 10 15

Pro Lys Lys Arg His Ile Lys Lys Leu Ser Asp Thr Ser Pro Asp Phe
20 25 30

Ile Tyr Phe Ile Tyr Leu Thr Thr Tyr Met Leu Val Cys Arg Asn Tyr
35 40 45

Ile Leu Asp Leu Phe Pro Tyr Leu Leu Arg Thr Val Leu Leu Leu Lys
50 55 60

Ala Ala Thr
65

<210> 5618

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5618

Ser Cys Gln Val Ser Pro Ala Gly Arg Lys His Cys Xaa Pro Ser Ala
1 5 10 15

4949

Gly Ser Ser Leu Glu Ser Gln Xaa Gly Lys Arg Ser Trp Pro Leu Pro
 20 25 30
 Pro Ala Asp Arg Ser Ser Ala Ser Met Arg Phe Val Val Val Thr Phe
 35 40 45
 Ser Val Thr Ile Lys Gly Asp Phe Phe Leu Asn Ile Lys Leu Phe Phe
 50 55 60
 Glu Gln Gly Met Asn Met Ser Phe Cys Asn Val Thr Glu Val Glu Phe
 65 70 75 80
 Lys

<210> 5619

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5619

Ala Leu Leu Val His Glu Asp Lys Leu Pro Glu Gly Phe Gly Cys Met
 1 5 10 15
 Leu His Ser Val Thr Ser Ser Tyr Leu Lys Ile Ser Val Leu Tyr Leu
 20 25 30
 Ala Leu Tyr Leu Lys Val Asn Thr Asn Leu Thr Tyr Leu Lys Ile Phe
 35 40 45

<210> 5620

<211> 107

<212> PRT

<213> Homo sapiens

<400> 5620

Cys Leu Ser Pro Gly Thr Trp Ala Asp Leu Val Pro Gly Glu Leu Ser
 1 5 10 15
 Pro Leu Leu Ala Lys Glu Leu Leu Ser Ser Gln Thr Leu Leu Leu Arg
 20 25 30
 Cys Pro Pro Cys Met Val Phe Glu Val Phe Glu Val Phe Leu Glu Phe
 35 40 45

4950

Thr Cys Trp Arg Leu Gln Leu Thr Glu Arg Pro Gly Leu Asp Cys Ala
 50 55 60

Ser Cys Ser Ser Arg Thr Lys Asp Ile Ser Trp Lys Cys Met Arg Pro
 65 70 75 80

Arg Ile Cys Asp Arg Asn Gly Ser Ser His Val Arg Tyr Ala Pro Trp
 85 90 95

Lys Asp Leu Glu Ile Arg Asn Leu Ser Glu His
 100 105

<210> 5621

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5621

Phe Tyr Val Arg Tyr Tyr Arg Tyr Phe Glu Met Val Thr Asp Ser Phe
 1 5 10 15

Glu Ile Leu Ser Ser Leu Glu Cys Asp Ala Phe Asn Ile Ala Ser Gly
 20 25 30

Phe Arg Trp Arg Asn Thr Met Leu Leu Ser Leu Lys Ile Asn Ser Ile
 35 40 45

Ser Pro Ile Val
 50

<210> 5622

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5622

Ser Ser Cys Met Asn Gln Gly Ser His Ser Gly Phe Gln Gly Leu Asp
 1 5 10 15

Phe Leu Val Cys Lys Arg Asp Phe Thr Met His Leu Ala Thr Ser Pro
 20 25 30

4951

Ser Ser Leu Gly Asn Xaa Lys Thr Lys Cys Arg Gln
 35 40

<210> 5623

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5623

Gln Gly Asn Pro Lys Leu Gln Lys Leu Lys Gly Gly Glu Glu Gly Pro
 1 5 10 15

Val Leu Met Ala Glu Ala Val Lys Lys Val Asn Arg Gly Asn Gly Lys
 20 25 30

Thr Ser Ser Arg Ile Leu Leu Leu Thr Lys Gly His Val Ile Leu Thr
 35 40 45

Asp Thr Lys Lys Ser Gln Ala Lys Ile Val Ile Gly Leu Xaa Asn Val
 50 55 60

Ala Gly Val Ser Val Thr Ser Leu Lys Asp Gly Leu Phe Ser Leu His
 65 70 75 80

Leu Ser Xaa Met Ser Ser Val Gly Ser Lys Gly Asp Phe Leu Leu Val
 85 90 95

Lys Arg Ala Cys Asp
 100

<210> 5624

<211> 73

<212> PRT

<213> Homo sapiens

<400> 5624

4952

Asn Arg Ser Val Gln Ser Tyr Phe Phe Leu Thr Leu Asn Phe Pro Ser
 1 5 10 15
 Arg Glu Tyr Thr Ile Trp Leu Arg Gly Arg Gly Ser Pro Glu Glu Arg
 20 25 30
 Gly Phe Ala Leu Arg Gly Arg Ala Ser Leu Asp Phe Ala Ala Ser Asn
 35 40 45
 Phe Ser Arg Gly Val Glu Gly Gly Ala Leu Gly Gly Pro His Ser Leu
 50 55 60
 Ser Gly Val Pro Ala Arg Val Ser Phe
 65 70

<210> 5625

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5625

Ser Cys Glu Asp Gly Lys Val Glu Gln Glu Ala Leu Ser Ala Phe Leu
 1 5 10 15
 His Asp Val Asn Glu Glu Ile Gln Cys Gln Ile Glu Val Asp Gly Thr
 20 25 30
 Pro Arg Gly Arg Gly Ala Gly Val Gly Ser Asp Val Pro Ser Pro Pro
 35 40 45
 Ser Pro Gly Pro Thr Asp Cys Gly His Glu Xaa Ala Gly Trp Cys Tyr
 50 55 60
 Asp Ser Arg Leu Gln His Arg Ala Leu Pro Ser Ser Pro Gln Trp Asp
 65 70 75 80
 Ile Lys Thr Thr Leu Gly Pro Phe Val Gln Gly Thr Thr Ser Ser Ile
 85 90 95
 Asp Gly Glu Asn Lys Leu Ser Arg Ala Thr Thr Gly Trp Arg Glu Ala
 100 105 110
 Gly Thr Ile Val Phe Leu Arg Ser Val Thr Ala Asp Pro Thr Asp His
 115 120 125

4953

Ala Cys Trp Tyr Thr Leu Val Pro Asp Pro Ala Cys Arg Thr Ser Ala
130 135 140

Val Cys
145

<210> 5626
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5626
Gly Gly Asn Ser Gly Asn Gly Pro Ala Lys Ile Tyr Gly Ala Ala Ala
1 5 10 15

Ala Asp Asp Thr Ala Asn Ile Thr Gln Gln Pro Asp Ala Asn Val Asp
20 25 30

Ile Asp Trp Gln Gly Gln Ala Phe Arg Gly Asn Asn Gln Gln Val Leu
35 40 45

Leu Glu Gln Leu Glu Asn Gln Gly Ile Arg Ile
50 55

<210> 5627
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5627
Lys Ala Lys Gln Cys Lys Asn Pro Leu Gln Lys Ala Arg Leu Pro Pro
1 5 10 15

Ser Thr Glu Pro Gln Leu Leu Cys Ser Pro Leu Gln Arg Gln Trp Leu
20 25 30

Leu Leu Val Thr Cys Ile Ser Cys Trp Ile Cys Val Phe Tyr Gln Gly
35 40 45

<210> 5628
<211> 39

4954

<212> PRT

<213> Homo sapiens

<400> 5628

Asp Ser Val Leu Ser Leu Ile Ser His Asn Gln Leu Phe Leu Leu Val
 1 5 10 15

Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg Pro Pro
 20 25 30

Pro Arg Trp Ser Ser Ser Phe
 35

<210> 5629

<211> 26

<212> PRT

<213> Homo sapiens

<400> 5629

Trp His Met Pro Val Ile Pro Ala Leu Trp Glu Ser Glu Ala Gly Gly
 1 5 10 15

Ser Leu Glu Ser Arg Ser Leu Arg Leu Pro
 20 25

<210> 5630

<211> 87

<212> PRT

<213> Homo sapiens

<400> 5630

Ile Ala Asn Ser Lys Gly Cys Thr Ser Val Ile Ile Asn Lys Asn Leu
 1 5 10 15

Ala Asn Ser Cys Gly Thr Gly Tyr Ser His Leu Ile Cys Leu Val Pro
 20 25 30

Lys Ile Ala Cys Pro Phe Pro Asn Ser Ser Gln Leu Asp Cys Ala Thr
 35 40 45

Lys Thr Asp Lys Tyr Leu Leu Gly Asn His Asn His Gly Asp Leu Leu
 50 55 60

Pro Gln Leu Gly Pro Trp Tyr Ile Phe Val Cys Ile Leu Trp Cys Tyr
 65 70 75 80

Met Gln Ile Asn Thr Phe Asn

4955

85

<210> 5631

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5631

Gln	Glu	Thr	Ser	Lys	Met	Glu	Thr	Leu	Ser	Phe	Pro	Arg	Tyr	Asn	Val
1				5				10						15	

Ala	Glu	Ile	Val	Ile	His	Ile	Arg	Asn	Lys	Ile	Leu	Thr	Gly	Ala	Asp
			20				25						30		

Gly	Lys	Asn	Leu	Thr	Lys	Asn	Asp	Leu	Tyr	Pro	Asn	Pro	Lys	Pro	Glu
		35					40					45			

Val	Leu	His	Met	Ile	Tyr	Met	Arg	Ala	Leu	Gln	Ile	Val	Tyr	Gly	Ile
	50					55					60				

Arg	Leu	Glu	His	Phe	Tyr	Met	Met	Pro	Val	Asn	Ser	Glu	Val	Met	Tyr
65					70					75				80	

Pro	His	Leu	Met	Gly	Arg	Xaa	Leu	Thr	Ile	Gln	Ala	Ile
				85					90			

<210> 5632

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4956

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5632

Thr	Val	Leu	Gly	His	Val	Leu	Tyr	Leu	Cys	Leu	Ala	Pro	His	Leu	Phe
1				5				10						15	

Leu	Asp	Pro	Leu	Val	Ile	Cys	Met	Thr	Thr	Phe	Lys	Asn	Phe	Asn	Phe
			20					25					30		

Val	Cys	Cys	Leu	Arg	His	Cys	Cys	Glu	His	Pro	His	Gly	Val	Arg	His
			35					40					45		

Pro	Pro	Thr	Leu	Ala	Pro	Ala	Ser	Thr	Leu	Leu	His	Leu	Thr	Ser	Val
			50				55					60			

Tyr	Pro	Ala	Ala	Leu	Leu	Leu	Leu	Leu	Val	Cys	Val	Asn	Glu	Asp	Asn
				65			70				75				80

Leu	Val	Ala	Val	Thr	Tyr	Lys	Cys	Phe	Ile	Trp	His	His	Pro	Ser	Val
				85						90				95	

Xaa	Xaa	Xaa	Trp	Trp	Xaa	Glu	Xaa	Thr	Leu	Ala	Pro	Thr	Pro	Xaa	His
			100					105					110		

Thr Ser

<210> 5633

<211> 210

<212> PRT

<213> Homo sapiens

4957

<220>
<221> SITE
<222> (145)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (159)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (182)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (187)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (190)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5633
Lys Glu Asn Lys Val Val Leu Ile Val Gly Glu Thr Gly Ser Gly Lys
1 5 10 15
Thr Thr Gln Ile Pro Gln Phe Leu Leu Asp Asp Cys Phe Lys Asn Gly
20 25 30
Ile Pro Cys Arg Ile Phe Cys Thr Gln Pro Arg Arg Leu Ala Ala Ile
35 40 45
Ala Val Ala Glu Arg Val Ala Ala Glu Arg Arg Glu Arg Ile Gly Gln

4958

50	55	60
Thr Ile Gly Tyr Gln Ile Arg Leu Glu Ser Arg Val Ser Pro Lys Thr		
65	70	75 80
Leu Leu Thr Phe Cys Thr Asn Gly Val Leu Leu Arg Thr Leu Met Ala		
	85	90 95
Gly Asp Ser Thr Leu Ser Thr Val Thr His Val Ile Val Asp Glu Val		
	100	105 110
His Glu Arg Asp Arg Phe Ser Asp Phe Leu Leu Thr Lys Leu Arg Asp		
	115	120 125
Leu Leu Gln Lys His Pro Thr Leu Lys Leu Ile Leu Ser Ser Ala Ala		
	130	135 140
Xaa Asp Val Asn Leu Phe Ile Arg Tyr Phe Gly Ser Cys Pro Xaa Ile		
145	150	155 160
Tyr Ile Gln Gly Xaa Pro Phe Glu Val Lys Glu Met Phe Leu Glu Asp		
	165	170 175
Ile Leu Xaa Thr Thr Xaa Xaa Thr Asn Lys Xaa Met Leu Xaa Tyr Lys		
	180	185 190
Lys Glu Lys Gln Gln Asp Glu Lys Thr Leu Ser Lys Lys Lys Lys Lys		
	195	200 205
Lys Lys		
210		

<210> 5634

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4959

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5634

Xaa	Val	Arg	Tyr	Ile	Ala	Xaa	Xaa	Ser	Ala	Ala	Xaa	Arg	Lys	Arg	Xaa
1				5					10					15	

Val	Cys	Ser	Glu	Trp	Lys	Phe	Ala	Ala	Cys	Val	Val	Asp	Arg	Leu	Cys
			20					25					30		

Leu	Met	Ala	Phe	Ser	Val	Phe	Thr	Ile	Ile	Cys	Thr	Ile	Gly	Ile	Leu
		35					40					45			

Met	Ser	Ala	Pro	Asn	Phe	Val	Glu	Ala	Val	Ser	Lys	Asp	Phe	Ala	
	50					55					60				

<210> 5635

<211> 88

<212> PRT

<213> Homo sapiens

<400> 5635

Pro	Ser	Thr	Leu	Asp	Cys	Ser	Leu	Thr	Glu	Cys	Leu	Ser	Leu	Ser	Ile
1				5					10					15	

Leu	Cys	Pro	Phe	Tyr	Ser	Phe	Lys	Lys	Thr	Val	Ala	Val	Thr	Lys	Glu
			20					25					30		

Leu	Phe	Leu	Ile	Pro	Arg	Leu	Cys	Gln	Thr	Lys	Val	Ser	Ser	Leu	Arg
		35					40					45			

Leu	Leu	Asp	Phe	Asp	Ile	Lys	Tyr	Val	Phe	Ser	Ser	Ser	Asn	Phe	Ile
	50					55					60				

Tyr	Val	Tyr	Ser	Ser	Ser	Asp	Pro	Glu	Ile	Tyr	Phe	Leu	Leu	Ile	Ile
65						70				75				80	

Leu	Thr	Trp	Ile	Pro	Gln	Ala	Ile								
							85								

4960

<210> 5636

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5636

Pro	Gly	Xaa	Pro	Gly	Arg	Pro	Thr	Arg	Pro	Ala	Arg	Cys	Gln	Gln	Pro
1				5					10					15	

Gly	Ala	Arg	Ser	Gln	Glu	Gln	Ser	Ala	Ser	Met	Asn	Leu	Gly	Val	Ser
			20					25					30		

Met	Leu	Arg	Ile	Leu	Phe	Leu	Leu	Asp	Val	Gly	Gly	Ala	Gln	Val	Leu
			35				40					45			

Ala	Thr	Gly	Lys	Thr	Pro	Gly	Ala	Glu	Ile	Asp	Phe	Lys	Tyr	Ala	Leu
			50			55					60				

Ile	Gly	Thr	Ala	Val	Gly	Val	Ala	Ile	Ser	Ala	Gly	Phe	Leu	Ala	Leu
65					70					75				80	

Lys	Ile	Cys	Met	Ile	Arg	Arg	His	Leu	Phe	Asp	Asp	Asp	Ser	Ser	Asp
				85					90					95	

Leu	Lys	Ser	Thr	Pro	Gly	Gly	Leu	Ser	Asp	Thr	Ile	Pro	Leu	Lys	Lys
			100					105					110		

Arg	Ala	Pro	Arg	Arg	Asn	His	Asn	Phe	Ser	Lys	Arg	Asp	Ala	Gln	Val
			115				120					125			

Ile	Glu	Leu
		130

<210> 5637

<211> 166

<212> PRT

<213> Homo sapiens

<400> 5637

Pro	Thr	Arg	Pro	His	Ser	Ala	Arg	Leu	Thr	Met	Cys	His	Ser	Arg	Ser
1				5					10					15	

4961

Cys His Pro Thr Met Thr Ile Leu Gln Ala Pro Thr Pro Ala Pro Ser
 20 25 30
 Thr Ile Pro Gly Pro Arg Arg Gly Ser Gly Pro Glu Ile Phe Thr Phe
 35 40 45
 Asp Pro Leu Pro Glu Pro Ala Ala Ala Pro Ala Gly Arg Pro Ser Ala
 50 55 60
 Ser Arg Gly His Arg Lys Arg Ser Arg Arg Val Leu Tyr Pro Arg Val
 65 70 75 80
 Val Arg Arg Gln Leu Pro Val Glu Glu Pro Asn Pro Ala Lys Arg Leu
 85 90 95
 Leu Phe Leu Leu Leu Thr Ile Val Phe Cys Gln Ile Leu Met Ala Glu
 100 105 110
 Glu Gly Val Pro Ala Pro Leu Pro Pro Glu Asp Ala Pro Asn Ala Ala
 115 120 125
 Ser Leu Ala Pro Thr Pro Val Ser Pro Val Leu Glu Pro Phe Asn Leu
 130 135 140
 Thr Ser Glu Pro Ser Asp Tyr Ala Leu Asp Leu Ser Thr Phe Leu Gln
 145 150 155 160
 Gln His Pro Ala Ala Phe
 165

<210> 5638

<211> 169

<212> PRT

<213> Homo sapiens

<400> 5638

Gly Pro Ser Trp Arg Ser Asn Pro Arg Gly Arg Ser Ser Ser Thr Trp
 1 5 10 15
 Ser Ser Ser Ser Pro Pro Arg Ser Arg Ser Arg Ser Arg Ser Ser Ser
 20 25 30
 Pro Asn Pro Ser Leu Ser Leu Ser Arg Asn Pro Ser Pro Asn His Asn
 35 40 45
 Pro Ser Leu Ser Pro Asn Pro Ser Leu Ser Pro Ser Ser Ser Thr Arg
 50 55 60

4962

Ile Arg Ile His Ile His Ile His Thr Leu Ile Leu Thr Arg Thr His
 65 70 75 80
 Thr Leu Thr Arg Thr Arg Ile Arg Thr Lys Tyr Arg Thr His Thr His
 85 90 95
 Ser Arg Thr Arg Ser Arg Thr Gly Thr Gly Phe Ser Ala Ala Pro Pro
 100 105 110
 Thr Leu Pro Glu Arg Gly Ser Ser Arg Ala Arg Gln Gly Phe Glu Asp
 115 120 125
 Leu Arg Lys Trp Asp Glu His Ile Ser Ile Val Phe Thr Trp Ile Lys
 130 135 140
 Ser Lys Thr Val Ser Pro Pro Arg Thr Arg Ser Ser Ser Leu Asp Ile
 145 150 155 160
 Thr Leu Leu Lys Thr Cys Asp Ser Ser
 165

<210> 5639

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5639

Lys Thr Phe Ser Ile Arg Lys Arg Gly Lys Phe Xaa Pro Ser Lys Phe
 1 5 10 15
 Asp Tyr Ser Ser Lys Leu Ser Leu Leu Met Gln Ser Ser Phe Val Thr
 20 25 30
 Leu Thr Leu Gly His Cys Tyr Gln Thr Ser Trp Glu Ile Ser Ser Ser
 35 40 45
 Arg Arg Leu Asn Thr Cys Arg Lys Gln Met Phe Phe Gly Pro
 50 55 60

<210> 5640

<211> 337

<212> PRT

4963

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5640

Ala	Pro	Ala	Cys	Gly	Ala	Xaa	Ala	Trp	Lys	Phe	Leu	Leu	Gly	Tyr	Leu
1				5					10					15	

Ser	Trp	Glu	Gly	Thr	Ala	Glu	Glu	His	Lys	Ala	His	Ile	Arg	Lys	Lys
			20					25					30		

Thr	Asp	Glu	Tyr	Phe	Arg	Met	Lys	Leu	Gln	Trp	Lys	Ser	Val	Ser	Pro
		35					40					45			

Glu	Gln	Glu	Arg	Arg	Asn	Ser	Leu	Leu	His	Gly	Tyr	Arg	Ser	Leu	Ile
	50					55					60				

Glu	Arg	Asp	Val	Ser	Arg	Thr	Asp	Arg	Thr	Asn	Lys	Phe	Tyr	Glu	Gly
65					70					75					80

Pro	Glu	Asn	Pro	Gly	Leu	Gly	Leu	Leu	Asn	Asp	Ile	Leu	Leu	Thr	Tyr
				85					90					95	

Cys	Met	Tyr	His	Phe	Asp	Leu	Gly	Tyr	Val	Gln	Gly	Met	Ser	Asp	Leu
			100					105					110		

Leu	Ser	Pro	Ile	Leu	Tyr	Val	Ile	Gln	Asn	Glu	Val	Asp	Ala	Phe	Trp
		115					120					125			

Cys	Phe	Cys	Gly	Phe	Met	Glu	Leu	Val	Gln	Gly	Asn	Phe	Glu	Glu	Ser
	130					135					140				

Gln	Glu	Thr	Met	Lys	Arg	Gln	Leu	Gly	Arg	Leu	Leu	Leu	Leu	Leu	Arg
145					150				155						160

Val	Leu	Asp	Pro	Leu	Leu	Cys	Asp	Phe	Leu	Asp	Ser	Gln	Asp	Ser	Gly
				165					170					175	

Ser	Leu	Cys	Phe	Cys	Phe	Arg	Trp	Leu	Leu	Ile	Trp	Phe	Lys	Arg	Glu
			180					185					190		

Phe	Pro	Phe	Pro	Asp	Val	Leu	Arg	Leu	Trp	Glu	Val	Leu	Trp	Thr	Gly
			195				200					205			

Leu	Pro	Gly	Pro	Asn	Leu	His	Leu	Leu	Val	Ala	Cys	Ala	Ile	Leu	Asp
	210					215					220				

Met	Glu	Arg	Asp	Thr	Leu	Met	Leu	Ser	Gly	Phe	Gly	Ser	Asn	Glu	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4964

225 230 235 240
 Leu Lys His Ile Asn Glu Leu Thr Met Lys Leu Ser Val Glu Asp Val
 245 250 255
 Leu Thr Arg Ala Glu Ala Leu His Arg Gln Leu Thr Ala Cys Pro Glu
 260 265 270
 Leu Pro His Asn Val Gln Glu Ile Leu Gly Leu Ala Pro Pro Ala Glu
 275 280 285
 Pro His Ser Pro Ser Pro Thr Ala Ser Pro Leu Pro Leu Ser Pro Thr
 290 295 300
 Arg Ala Pro Pro Thr Pro Pro Pro Ser Thr Asp Thr Ala Pro Gln Pro
 305 310 315 320
 Asp Ser Ser Leu Glu Ile Leu Pro Glu Glu Glu Asp Glu Gly Ala Asp
 325 330 335
 Ser

<210> 5641

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5641

Met Gln Leu Leu Leu Leu Thr Cys Leu Leu Gln Leu Ile Met Val Thr
 1 5 10 15
 Asn Lys Ala Ile Ala Ser Gln Ile Ser Gln Ile Lys His Phe Phe His
 20 25 30
 Cys Ile Leu Val Val Val Cys Pro Asn Ser Ser Met Tyr Leu Ile Met
 35 40 45
 Ser Gly Ser Ile Leu His
 50

<210> 5642

<211> 65

<212> PRT

<213> Homo sapiens

<220>

4965

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5642

Cys	Leu	Trp	Leu	Phe	Lys	Ser	Gln	Ser	Leu	Val	Asn	His	Ile	Thr	Ile
1				5					10					15	

Arg	Pro	Trp	Phe	Ser	Ile	Gly	Gly	Asp	Phe	Pro	Arg	Gly	Thr	Phe	Gly
			20					25					30		

His	Val	Leu	Glu	Ala	Phe	Trp	Leu	Ser	His	Trp	Xaa	Pro	Gly	Val	Xaa
		35					40					45			

Leu	Pro	Xaa	Thr	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Arg	Gly	Ala	Phe
	50					55					60				

Leu
65

<210> 5643

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5643

Thr	Asn	Phe	Phe	Gln	Leu	Val	Lys	His	His	Thr	Ser	Ser	Ala	Lys	Gly
1				5					10					15	

Ile	Leu	Leu	Ala	Glu	Pro	Ser	Trp	Met	Ile	Ser	Val	Thr	His	Ala	Xaa
			20					25					30		

Thr	Cys	Ser	Leu	Glu	Gly	Ser	Gly	Glu	Trp	Ile	His	Ala	Ile	Cys	Leu
		35					40					45			

4966

Glu Asp Thr Arg Met Ser Gln Pro Pro Asp Leu Val Ile Tyr Lys Leu
 50 55 60

Leu Arg Ile Thr Leu Val Tyr Phe Trp Ser Glu Asn Gly Lys Ala Gln
 65 70 75 80

Ile Met Lys

<210> 5644

<211> 407

<212> PRT

<213> Homo sapiens

<400> 5644

Ala Ala Cys Gln Pro Arg Cys Cys Cys Ser Ser Cys Cys Gly Thr Ala
 1 5 10 15

Asp Arg Ala Ala Ala Pro Leu Ser Pro Leu Gln Ala Pro Ile Trp Ala
 20 25 30

Pro Ala Thr Ser Met Asp Ala Arg Arg Val Pro Gln Lys Asp Leu Arg
 35 40 45

Val Lys Lys Asn Leu Lys Lys Phe Arg Tyr Val Lys Leu Ile Ser Met
 50 55 60

Glu Thr Ser Ser Ser Ser Asp Asp Ser Cys Asp Ser Phe Ala Ser Asp
 65 70 75 80

Asn Phe Ala Asn Thr Arg Leu Gln Ser Val Arg Glu Gly Cys Arg Thr
 85 90 95

Arg Ser Gln Cys Arg His Ser Gly Pro Leu Arg Val Ala Met Lys Phe
 100 105 110

Pro Ala Arg Ser Thr Arg Gly Ala Thr Asn Lys Lys Ala Glu Ser Arg
 115 120 125

Gln Pro Ser Glu Asn Ser Val Thr Asp Ser Asn Ser Asp Ser Glu Asp
 130 135 140

Glu Ser Gly Met Asn Phe Leu Glu Lys Arg Ala Leu Asn Ile Lys Gln
 145 150 155 160

Asn Lys Ala Met Leu Ala Lys Leu Met Ser Glu Leu Glu Ser Phe Pro
 165 170 175

4967

Gly Ser Phe Arg Gly Arg His Pro Leu Pro Gly Ser Asp Ser Gln Ser
 180 185 190
 Arg Arg Pro Arg Arg Arg Thr Phe Pro Gly Val Ala Ser Arg Arg Asn
 195 200 205
 Pro Glu Arg Arg Ala Arg Pro Leu Thr Arg Ser Arg Ser Arg Ile Leu
 210 215 220
 Gly Ser Leu Asp Ala Leu Pro Met Glu Glu Glu Glu Glu Asp Lys
 225 230 235 240
 Tyr Met Leu Val Arg Lys Arg Lys Thr Val Asp Gly Tyr Met Asn Glu
 245 250 255
 Asp Asp Leu Pro Arg Ser Arg Arg Ser Arg Ser Ser Val Thr Leu Pro
 260 265 270
 His Ile Ile Arg Pro Val Glu Glu Ile Thr Glu Glu Glu Leu Glu Asn
 275 280 285
 Val Cys Ser Asn Ser Arg Glu Lys Ile Tyr Asn Arg Ser Leu Gly Ser
 290 295 300
 Thr Cys His Gln Cys Arg Gln Lys Thr Ile Asp Thr Lys Thr Asn Cys
 305 310 315 320
 Arg Asn Pro Asp Cys Trp Gly Val Arg Gly Gln Phe Cys Gly Pro Cys
 325 330 335
 Leu Arg Asn Arg Tyr Gly Glu Glu Val Arg Asp Ala Leu Leu Asp Pro
 340 345 350
 Asn Trp His Cys Pro Pro Cys Arg Gly Ile Cys Asn Cys Ser Phe Cys
 355 360 365
 Arg Gln Arg Asp Gly Arg Cys Ala Thr Gly Val Leu Val Tyr Leu Ala
 370 375 380
 Lys Tyr His Gly Phe Gly Asn Val His Ala Tyr Leu Lys Ser Leu Lys
 385 390 395 400
 Gln Glu Phe Glu Met Gln Ala
 405

<210> 5645

<211> 44

<212> PRT

<213> Homo sapiens

4968

<400> 5645

Arg Glu Ala Ser Gly Ser Leu Trp Glu Gln Ser Tyr Lys Leu Ile Glu
 1 5 10 15

Ile His Thr Leu Pro Lys Gln Leu Gly Pro Thr Thr Val Pro His Val
 20 25 30

Ser Met Gln Asn Tyr Ile Leu Pro Arg Ile Asn Ser
 35 40

<210> 5646

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5646

Lys Met Xaa Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
 1 5 10 15

Ala Val Xaa Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
 20 25 30

Ser Ala Pro Leu Cys Met Tyr Ser Ser Leu Leu Pro Ser Ser Gln Leu
 35 40 45

Ser Val Arg Tyr Val Phe Leu Ser
 50 55

<210> 5647

<211> 35

<212> PRT

<213> Homo sapiens

<400> 5647

Ser Val Cys Val His Thr Phe Tyr Phe Ser Val Ser Trp Val Tyr Val
 1 5 10 15

4969

Trp Leu Lys Thr Ile Leu Glu Ser Lys Ser Ile Leu Ile Tyr Lys Lys
 20 25 30

Thr Phe Trp
 35

<210> 5648

<211> 106

<212> PRT

<213> Homo sapiens

<400> 5648

Gln Cys Pro Met Gly Pro Leu Leu Leu Pro Ala Pro Ser Leu Leu Leu
 1 5 10 15

Leu Met His Ser Pro Leu Pro Ala Ala Pro Gly Phe Pro Ala Phe Leu
 20 25 30

Leu Thr Pro Ser Asn Ser Leu Gly Thr Pro Ala Ala Thr Thr Leu Trp
 35 40 45

Val Gly His Trp Asp Pro Leu Ala Gln Ser Trp Leu Leu Leu Thr Pro
 50 55 60

Ser Leu Asp Ala Cys Pro Gly Thr Pro Ser Pro Leu Pro Leu Pro Cys
 65 70 75 80

Ser Phe Asn Arg Val Asn His Val Tyr Cys Thr Gly Ala Val Val Ile
 85 90 95

Ala Glu Thr Ala Gly Trp Arg Arg Ser Arg
 100 105

<210> 5649

<211> 85

<212> PRT

<213> Homo sapiens

<400> 5649

Arg Asn Pro Lys Asn Gly Asn Asn Pro Ser His Gly Cys His Thr Leu
 1 5 10 15

Leu Thr Cys Ser Ile Pro Thr Gln Glu Leu Pro Ala Tyr Gly Ala Ser
 20 25 30

His Trp Ser Thr Ser Tyr Pro Gln His Leu Ser Cys His Cys Gln Gly

4970

35 40 45
 Thr Tyr Leu Trp Pro Pro Ala Ile Leu Tyr Arg Ala Ile Val Leu Tyr
 50 55 60
 Ile Leu His Ile Arg Lys Leu Arg Leu Lys Val Asn Leu Ile Cys Leu
 65 70 75 80
 Cys Gln Ser Gln Asp
 85

<210> 5650

<211> 269

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5650

Gly Pro Tyr Xaa Tyr Phe Leu Pro Gly Glu Cys Leu Asp Cys Ser Pro
 1 5 10 15
 Leu Leu Val Leu Gln Gly Val Thr His Ala Ala Ile Trp Ala Ala Cys
 20 25 30
 Ile Ser Tyr Leu Ser Ala Ala Val Pro Pro Glu Leu Arg Thr Ser Ala
 35 40 45
 Gln Gly Ile Leu Gln Gly Leu His Leu Gly Leu Gly Arg Gly Cys Gly
 50 55 60
 Ala Met Ile Gly Gly Val Leu Val Asn Tyr Phe Gly Ala Ala Ala Thr
 65 70 75 80
 Phe Arg Gly Ile Gly Met Ala Cys Leu Val Ile Leu Leu Leu Phe Ala
 85 90 95
 Leu Ile Gln Trp Leu Ala Val Pro Asp Glu Glu Glu Asp Lys Thr Met
 100 105 110
 Leu Ala Glu Arg Ile Pro Val Pro Ser Ser Pro Val Pro Ile Ala Thr

4971

115		120		125
Ile Asp Leu Val Gln Gln Gln Thr Glu Asp Val Met Pro Arg Ile Glu				
130		135		140
Pro Arg Leu Pro Pro Lys Lys Thr Lys His Gln Glu Glu Gln Glu Asp				
145		150		155
				160
Val Asn Lys Pro Ala Trp Gly Val Ser Ser Ser Pro Trp Val Thr Phe				
	165		170	175
Xaa Tyr Ala Leu Tyr Gln Ile Lys Glu Met Met Gln Leu Thr Arg Asp				
	180		185	190
Asn Arg Ala Ser Glu Ile Gln Pro Leu Gln Gly Thr Asn Glu Asn Arg				
	195		200	205
Glu Asn Ser Pro Ala Gly Arg Ala Gln Pro Val Pro Cys Glu Thr His				
	210		215	220
Ser Asp Pro Ser Arg Asn Gln Pro Ser Pro Asp Ala Ala Ala Ser Gln				
	225		230	235
				240
Thr Gln Thr Ser Pro Ala His Pro Ser Val Asp Pro Cys Thr Glu Glu				
	245		250	255
Ser Glu Glu Gln Gln Ala Gln Leu Ala Ala Gly Gly His				
	260		265	

<210> 5651

<211> 364

<212> PRT

<213> Homo sapiens

<400> 5651

Cys Leu Arg Lys Ser Phe Glu Met Thr Val Glu Lys Val Gln Gly Ile
1 5 10 15
Ser Arg Leu Glu Gln Leu Cys Glu Glu Phe Ser Glu Glu Glu Arg Val
20 25 30
Arg Glu Leu Lys Gln Glu Lys Lys Arg Gln Lys Arg Lys Asn Arg Arg
35 40 45
Lys Asn Lys Cys Val Cys Asp Ile Pro Thr Pro Leu Gln Thr Ala Asp
50 55 60
Glu Lys Glu Val Ser Gln Glu Lys Glu Thr Asp Phe Ile Glu Asn Ser
65 70 75 80

4972

Ser	Cys	Lys	Ala	Cys	Gly	Ser	Thr	Glu	Asp	Gly	Asn	Thr	Cys	Val	Glu	85	90	95	
Val	Ile	Val	Thr	Asn	Glu	Asn	Thr	Ser	Cys	Thr	Cys	Pro	Ser	Ser	Gly	100	105	110	
Asn	Leu	Leu	Gly	Ser	Pro	Lys	Ile	Lys	Lys	Gly	Leu	Ser	Pro	His	Cys	115	120	125	
Asn	Gly	Ser	Asp	Cys	Gly	Tyr	Ser	Ser	Ser	Met	Glu	Gly	Ser	Glu	Thr	130	135	140	
Gly	Ser	Arg	Glu	Gly	Ser	Asp	Val	Ala	Cys	Thr	Glu	Gly	Ile	Cys	Asn	145	150	155	160
His	Asp	Glu	His	Gly	Asp	Asp	Ser	Cys	Val	His	His	Cys	Glu	Asp	Lys	165	170	175	
Glu	Asp	Asp	Gly	Asp	Ser	Cys	Val	Glu	Cys	Trp	Ala	Asn	Ser	Glu	Glu	180	185	190	
Asn	Asp	Thr	Lys	Gly	Lys	Asn	Lys	Lys	Lys	Lys	Lys	Lys	Ser	Lys	Ile	195	200	205	
Leu	Lys	Cys	Asp	Glu	His	Ile	Gln	Lys	Leu	Gly	Ser	Cys	Ile	Thr	Asp	210	215	220	
Pro	Gly	Asn	Arg	Glu	Thr	Ser	Gly	Asn	Thr	Met	His	Thr	Val	Phe	His	225	230	235	240
Arg	Asp	Lys	Thr	Lys	Asp	Thr	His	Pro	Glu	Ser	Cys	Cys	Ser	Ser	Glu	245	250	255	
Lys	Gly	Gly	Gln	Pro	Leu	Pro	Trp	Phe	Glu	His	Arg	Lys	Asn	Val	Pro	260	265	270	
Gln	Phe	Ala	Glu	Pro	Thr	Glu	Thr	Leu	Phe	Gly	Pro	Asp	Ser	Gly	Lys	275	280	285	
Gly	Ala	Lys	Ser	Leu	Val	Glu	Leu	Leu	Asp	Glu	Ser	Glu	Cys	Thr	Ser	290	295	300	
Asp	Glu	Glu	Ile	Phe	Ile	Ser	Gln	Asp	Glu	Ile	Gln	Ser	Phe	Met	Ala	305	310	315	320
Asn	Asn	Gln	Ser	Phe	Tyr	Ser	Asn	Arg	Glu	Gln	Tyr	Arg	Gln	His	Leu	325	330	335	
Lys	Glu	Lys	Phe	Asn	Lys	Tyr	Cys	Arg	Leu	Asn	Asp	His	Lys	Arg	Pro	340	345	350	

4973

Ile Cys Ser Gly Trp Leu Thr Thr Ala Gly Ala Asn
 355 360

<210> 5652

<211> 90

<212> PRT

<213> Homo sapiens

<400> 5652

Ala Thr Leu Trp Asp Gly His Ala Ala Val Trp His Gly Tyr Glu Val
 1 5 10 15

His Gly Met Glu Lys Ile Pro Glu Asp Gly Pro Ala Leu Ile Ile Phe
 20 25 30

Tyr His Gly Ala Ile Pro Ile Asp Phe Tyr Tyr Phe Met Ala Lys Ile
 35 40 45

Phe Ile His Lys Gly Arg Thr Cys Arg Val Val Ala Asp His Phe Val
 50 55 60

Phe Lys Ile Gln Gly Leu Val Tyr Tyr Trp Met Cys Phe Val Leu Tyr
 65 70 75 80

Met Asp Gln Glu Lys Asn Val Leu Lys Phe
 85 90

<210> 5653

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5653

His Ser Xaa Met Trp Leu Val His Leu Thr Arg Glu Glu Trp Gly Tyr
 1 5 10 15

Leu Asp Pro Val Gln Arg Asp Leu Tyr Arg Glu Val Met Leu Glu Asn
 20 25 30

Tyr Gly Asn Val Val Ser Leu Gly Ile Leu Leu Arg Leu Pro Thr Thr
 35 40 45

4974

Arg Ile His Ser Val Asn Ser Cys Pro Ala Leu Ser His Thr Gln Ala
 50 55 60

Ser Ala Phe Ser Gly Glu Thr Leu Ala Val Leu Thr Ala Gly Ile Ser
 65 70 75 80

Lys Arg Trp Pro Lys Tyr Arg Leu Pro Ile Asp Ile Ala Arg Pro Cys
 85 90 95

Ser Glu Thr Pro Phe Pro Arg Leu
 100

<210> 5654
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 5654
 Pro Leu Lys Thr Phe Pro Val Cys Leu Val Ile Ala Lys Pro Arg Lys
 1 5 10 15

Ile Ser Phe Leu Ser Ser Tyr Arg Glu Leu Ala Met Lys Leu Lys Phe
 20 25 30

Asn Cys Val Ser Arg Ser Leu Ile Phe Leu Gln Ile Ile Asn Tyr Val
 35 40 45

Leu

<210> 5655
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 5655
 Lys Leu Asp Phe Lys Ile Thr Asn Glu Arg Asn Leu Ile Leu Phe Cys
 1 5 10 15

Asp Arg Ser Gln Val Leu Gln Trp Phe Ala Ile Gln Asn Leu Ile Ile
 20 25 30

Val Lys Pro Gln Phe Lys Arg Leu
 35 40

4975

<210> 5656

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5656

Gly Tyr Leu Cys Leu Leu Cys Ile Leu Val Met Ala Arg Ser Arg Leu
 1 5 10 15

Ser Thr Thr Gly Arg His Pro Ala Val Val Ser Leu Leu Glu Leu Asn
 20 25 30

Val Trp Leu Ser Lys Ile Leu Ser Ile Glu Ser Leu Ser Leu Lys Xaa
 35 40 45

Leu Leu Gln Met Asn Ala Gln His Glu Ile Phe Lys Ile Val Ser Tyr
 50 55 60

Thr Leu Gly Ser Asn Lys Gln Lys Ile Leu
 65 70

<210> 5657

<211> 121

<212> PRT

<213> Homo sapiens

<400> 5657

Phe Ser Val Thr Gly Gln Ala Pro Val Glu Ile Ser Phe Val Leu Leu
 1 5 10 15

Trp Ala Gln Arg Trp Trp Trp Phe Gly Ser Ser Glu Asp Cys Leu Gly
 20 25 30

Arg Phe Ser Gly His Gly Ala Leu Cys Trp Pro Gly Trp Gly Trp Pro
 35 40 45

Arg Arg Cys Pro Phe Pro Gly Ala Leu Trp Trp Leu Gln Lys Thr Ser
 50 55 60

Phe Val Glu Asn Cys Phe Ser Ala Trp Asn Gln Thr Ser Ser Arg Trp
 65 70 75 80

Phe Gly Pro Cys Pro Cys Val Gly His Tyr His Thr Lys Arg Pro Ile

4976

	85		90		95
Lys Ile Lys Lys Ile Lys Lys Lys Lys Thr Asn Tyr Trp Arg Trp Trp					
	100		105		110
Pro Met Met His Leu Leu Phe Ala Gly					
	115		120		

<210> 5658
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 5658
 Trp Thr Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Ala Gly Glu Ser
 1 5 10 15
 Leu Glu Pro Gly Arg Gln Arg Leu Gln
 20 25

<210> 5659
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 5659
 Ser Ile Asp Thr Phe Tyr Ile Gln Phe Tyr Lys Tyr Lys Tyr Tyr Asn
 1 5 10 15
 Phe Ile Leu Met Val Pro Lys Ile His Phe Leu Arg Leu Lys Ala Cys
 20 25 30
 Thr Ser Met His Thr Cys Phe Trp Gly Glu Trp Gly Glu Asp Ile Leu
 35 40 45
 Ile Ile Ser Leu
 50

<210> 5660
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 5660
 Tyr Ile Phe Leu Ile Ser Tyr Arg Leu Tyr Arg Lys Glu Val Leu Glu

4977

1	5	10	15												
Lys	Leu	Ile	Glu	Lys	Cys	Val	Ser	Lys	Gly	Tyr	Val	Phe	Gln	Met	Glu
	20							25					30		
Met	Ile	Val	Arg	Ala	Arg	Gln	Leu	Asn	Tyr	Thr	Ile	Gly	Glu	Val	Cys
	35						40					45			

Asn

<210> 5661

<211> 222

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (217)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (218)

4978

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5661

Gln	Trp	Val	Ala	Tyr	Gly	Ser	Glu	Pro	His	Thr	Ser	Val	Pro	Val	Pro
1				5					10					15	
Ala	Gly	Ser	Leu	Pro	Asp	His	Ala	Val	His	Arg	Pro	His	Asp	Arg	Cys
			20					25					30		
Ala	Arg	Ser	Gly	Val	Met	Pro	Pro	Ala	Gln	Leu	Thr	Thr	Ile	Asn	Gln
		35					40					45			
Ser	Gln	Leu	Ser	Ala	Gln	Leu	Gly	Leu	Asn	Leu	Gly	Gly	Ala	Ser	Met
	50					55					60				
Pro	His	Thr	Ser	Pro	Ser	Pro	Pro	Ala	Ser	Lys	Ser	Ala	Thr	Pro	Ser
65					70					75					80
Pro	Ser	Ser	Ser	Ile	Asn	Glu	Glu	Asp	Ala	Asp	Glu	Ala	Asn	Arg	Ala
				85				90						95	
Ile	Gly	Glu	Lys	Arg	Ala	Ala	Pro	Asp	Ser	Gly	Lys	Lys	Pro	Lys	Thr
			100					105					110		
Pro	Lys	Xaa	Lys	Xaa	Xaa	Lys	Asp	Pro	Asn	Glu	Pro	Gln	Lys	Pro	Val
		115					120					125			
Ser	Ala	Tyr	Ala	Leu	Phe	Phe	Arg	Asp	Thr	Gln	Ala	Ala	Ile	Lys	Gly
		130				135					140				
Gln	Asn	Pro	Asn	Ala	Thr	Phe	Gly	Glu	Val	Ser	Xaa	Ile	Val	Ala	Ser
145					150					155					160
Met	Trp	Asp	Ser	Leu	Gly	Glu	Glu	Gln	Lys	Gln	Val	Tyr	Lys	Arg	Lys
				165					170					175	
Thr	Glu	Ala	Ala	Lys	Lys	Glu	Tyr	Leu	Lys	Ala	Leu	Ala	Ala	Tyr	Arg
			180					185					190		
Ala	Xaa	Leu	Val	Ser	Lys	Ala	Ala	Ala	Glu	Ser	Ala	Glu	Ala	Gln	Thr
		195					200					205			
Ile	Arg	Ser	Val	Gln	Gln	Thr	Leu	Xaa	Xaa	Thr	Asn	Leu	Thr		
	210					215					220				

<210> 5662

<211> 48

<212> PRT

<213> Homo sapiens

4979

<400> 5662

```

Arg Tyr Ile Ile Thr Lys Leu Lys Leu Cys Phe Cys Phe Ile Gln Arg
 1             5             10             15

Asn Leu Lys Ile Ile Asp Lys Lys Phe Leu Phe Arg Ala Met Ser Leu
          20             25             30

Tyr His Thr Leu Gly Asn Glu Thr Leu Ser Tyr Val Leu Ser Asp Asn
          35             40             45

```

<210> 5663

<211> 94

<212> PRT

<213> Homo sapiens

<400> 5663

```

Lys Leu Arg Tyr Ile Leu Pro Lys Asn Phe Phe Asn Lys Ile Ala Lys
 1             5             10             15

Asn Ile Leu Phe Arg His Phe Asn Val Pro Ile Tyr Asn Trp Ile Phe
          20             25             30

Ser Leu Asn Ser Thr Gln Ser Cys Gly Phe Tyr Phe Gln Leu Ile Phe
          35             40             45

Phe Leu Val Gly Ser Val His Gly Ile Ile Ser Leu Ser Arg Gly Leu
          50             55             60

Ser Cys Met Cys Ala Glu Phe Val Lys Glu Ser Ile Gly Arg Cys Arg
          65             70             75             80

Arg Pro Arg Phe Ala Phe Lys Val Phe Phe Arg Leu Cys Gly
          85             90

```

<210> 5664

<211> 65

<212> PRT

<213> Homo sapiens

<400> 5664

```

Gly Val Phe Ala Ala Met Tyr Ser Tyr Ser Ser Met Leu Thr Leu Pro
 1             5             10             15

```

4980

Phe Asp Val Val Gln Asn Leu Asp Leu Ser Pro Trp Ile Ser Pro Val
 20 25 30
 Val Pro Ala Ser Arg Gly Ile Phe Leu His Val Ser Gln Pro Pro Ser
 35 40 45
 Cys Ser Arg Val Leu Leu Asp Leu Gly Phe Ser Cys Pro Ser Leu Leu
 50 55 60
 Gly
 65

<210> 5665

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5665

Ile Ser Asn Thr Ser Ser Asp Cys Arg Pro Ser Glu Glu Ser Glu Leu
 1 5 10 15
 Leu Thr Asp Thr Thr Thr Asn Ile Leu Ser Gly Thr Thr Ser Thr Val
 20 25 30
 Glu Ser Asp Ile Leu Thr Gln Thr Asp Arg Glu Val Ala Leu His Glu
 35 40 45
 Arg Ser Ser Ser Val Ser Thr Ile Asp Thr Ala Arg Leu Ile Gln Ala
 50 55 60
 Phe Gly His Glu Arg Val Cys Leu Ser Pro Arg Arg Ile Lys Leu Tyr
 65 70 75 80
 Ser Ser Ile Thr Asn Gln Gln Arg Arg Tyr Leu Glu Glu Ala Xaa Lys
 85 90 95
 His Ser Lys Lys Val Leu Xaa Tyr Arg Ser Ser Pro Ser Asp Phe
 100 105 110

4981

<210> 5666

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5666

Gly	Pro	Ser	Trp	Val	Arg	Leu	Gly	Leu	Ser	Trp	Ala	Leu	Tyr	Val	Phe
1				5					10					15	

Trp	Ile	Gln	Gly	Tyr	Trp	Ala	Arg	Tyr	Val	Cys	Gly	Xaa	Ile	Pro	Ser
		20						25					30		

Leu	Pro	Gln	Pro	His	Leu	Pro	Leu	Lys	Pro	Ser	Leu	Ala	Leu	Ser	Glu
		35					40					45			

Leu	Pro	Phe	Leu	Leu	Pro	Ser	Leu	Pro	Ser	Ala	Gln	Cys	Pro	Thr	Trp
		50				55					60				

Leu	Phe	Cys	Tyr	Phe	Gly	Ser	Gly	Gly	Thr	Ser	Trp	Glu	Cys	Glu	Xaa
65					70					75					80

Pro	Tyr	Arg	Lys	Ile	Ala	Leu	Gln	Glu	Glu	Xaa	Leu	Gln	Gly	Thr	Ile
				85					90					95	

4982

Leu Asn Pro Lys Ala Trp Asn Leu Leu Xaa His Phe Thr Phe Val Xaa
 100 105 110

Lys Gly Leu Leu Asn Ala Leu Glu Lys Asp Leu Gly Pro Glu Leu Leu
 115 120 125

Ser

<210> 5667

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5667

Pro Ile His Glu Leu Met Pro Glu Asp Arg Ala Ser Thr Pro Arg Thr
 1 5 10 15

Thr Thr Met Thr Phe Thr Cys Xaa Xaa Phe Phe Asp Leu Phe Asn Ala
 20 25 30

Leu Thr Cys Arg Ser Gln Thr Lys Leu Ile Phe Glu Ile Gly Phe Leu
 35 40 45

Arg Asn His Met Phe Leu Tyr Ser Val Leu Gly Ser Ile Leu Gly Gln
 50 55 60

Leu Ala Val Ile Tyr Ile Pro Pro Leu Gln Arg Val Phe Gln Thr Glu
 65 70 75 80

Asn Leu Gly Ala Leu Asp Leu Leu Phe Leu Thr Gly Leu Ala Ser Ser
 85 90 95

Val Phe Ile Leu Ser Glu Leu Leu Lys Leu Cys Glu Lys Tyr Cys Cys
 100 105 110

Ser Pro Lys Arg Val Gln Met His Pro Glu Asp Val
 115 120

4983

<210> 5668

<211> 50

<212> PRT

<213> Homo sapiens

<400> 5668

Val	Ser	Val	Lys	Gln	Phe	Tyr	Phe	Ser	Tyr	Val	Thr	Val	Ala	Gly	Tyr
1				5					10					15	

Asp	Leu	Asn	Phe	Val	Phe	Arg	Pro	Pro	Ala	Arg	Ile	Leu	Cys	Leu	Leu
			20				25						30		

Leu	Tyr	Ser	Arg	Ser	Val	Phe	Leu	Pro	Arg	Leu	Arg	His	Arg	Gly	Pro
		35					40					45			

Gln	Pro
	50

<210> 5669

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5669

Leu	Leu	His	Leu	Ile	Leu	Tyr	Met	Ser	Asn	Ala	Ser	Phe	Leu	Ser	Val
1				5					10				15		

4984

Cys Leu Leu Ala Glu Asn Pro Val Gln Leu Ser Pro Gly Cys His Gly
 20 25 30
 Lys Tyr Asp Lys Glu Xaa Thr Leu Gly Leu Gly Leu Lys Gly Leu Val
 35 40 45
 Ile Gln Lys Thr Arg Glu Gly Cys Thr Cys Arg Val Ile Tyr Xaa Arg
 50 55 60
 Asn Leu Ile Lys Tyr Leu Ala His Arg Ser Tyr Lys Glu Ser Phe Gln
 65 70 75 80
 Arg Gly Pro Leu Ala Thr Ala Gly Phe Phe Val Arg Asn Ile Cys Val
 85 90 95
 Xaa Phe Tyr Pro Arg Glu Gln Asn Pro Arg Lys Gly Ser Phe Ile Ile
 100 105 110
 Tyr Ser His Phe Ser Ser Phe Leu Asn Lys Thr Phe Ser Ser Arg Asn
 115 120 125
 Thr Ala Phe Glu Gly Leu Cys Phe Met Gln Pro Ala Ser Leu Val Asp
 130 135 140
 Leu Phe Thr Arg Ser His Gln Val Ile Xaa Ser Ile Leu Gly Arg Trp
 145 150 155 160
 Arg Lys Gln Thr Asp Thr Val Ser Arg Cys
 165 170

<210> 5670

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5670

Tyr Val Leu Ser Ala Phe Arg Gly Leu Ser Arg Val Ile Asp Arg His
 1 5 10 15

4985

Leu Asn Glu Ala Leu Ser Phe Leu Lys Cys Lys Val Gly Glu Thr Gln
 20 25 30
 Asp Thr Arg Lys Arg Lys Asp Ile Val His Ile Val Val Ala Val Ala
 35 40 45
 Leu Arg Thr Val Leu Ala Arg Asp Arg Leu Gly Ile Xaa Ile Asn Pro
 50 55 60
 Gly His Trp Gly Ser Phe Ser Gly Ser Leu Xaa Leu Ser Leu Pro Gly
 65 70 75 80
 Ser Thr His

<210> 5671

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5671

Val His Phe Ile Ser Thr Phe Tyr Tyr Ile Tyr Leu Ile Ala Gln Val
 1 5 10 15
 Leu Leu Ser Arg Lys Lys Trp Asp Val Ala Asn Thr Ala Leu Leu Ala
 20 25 30
 Cys Arg Gln Cys Cys Pro Val Asn Arg Leu Lys Cys Ile Phe Ile Ser
 35 40 45
 Trp Tyr Ile Asn Leu Arg Lys Glu Lys Lys Lys Lys Lys Lys Lys Lys
 50 55 60
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 65 70 75 80
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa
 85 90 95
 Gly Gly

4986

<210> 5672

<211> 199

<212> PRT

<213> Homo sapiens

<400> 5672

Val Phe Leu Thr Tyr Ser Gly Gly Asp Ser Val Met Gln Ile Val Met
 1 5 10 15

Phe Asp Arg Gln Ser Ile Phe Ile His Gly Met Lys Ile Ser Leu Gln
 20 25 30

Gln Arg Ile Pro Gly Val Ser Ile Gln Gly Ala Ser Gln Ala Asp Glu
 35 40 45

Leu Trp Gln Lys Leu Glu Ser Tyr Pro Glu Ala Leu Val Met Leu Asp
 50 55 60

Gly Asp Gln Asp Gly Glu Phe Cys Tyr Trp Leu Leu Gln Lys Thr Val
 65 70 75 80

Val Gln Phe Pro Glu Val Lys Val Leu Ile Thr Ala Thr Asp Cys Asn
 85 90 95

Lys Arg Trp Leu Gln Glu Val Ile His Phe Asn Val Leu Ala Ile Val
 100 105 110

Pro Arg Asp Ser Thr Val Glu Thr Phe Ala Leu Ala Val Asn Ser Ala
 115 120 125

Ala Met Gly Met Met Phe Leu Pro Gly Asp Trp Arg Thr Thr Pro Glu
 130 135 140

Lys Asp Ile Lys Asp Leu Lys Ser Leu Ser Ala Arg Gln Arg Glu Ile
 145 150 155 160

Leu Thr Met Leu Ala Ala Gly Glu Ser Asn Lys Glu Ile Gly Arg Ala
 165 170 175

Leu Asn Ile Ser Thr Gly Thr Val Lys Ala His Leu Glu Ser Leu Tyr
 180 185 190

Arg Arg Leu Glu Val Lys Asn
 195

<210> 5673

<211> 192

<212> PRT

<213> Homo sapiens

4987

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5673

Ile	Met	Leu	His	Ala	Glu	Ala	Pro	Ala	Pro	Ala	Arg	Phe	Pro	Ala	Phe
1				5					10					15	

Ser	Met	Gly	His	Gly	Gly	Ala	Phe	Gly	Glu	Gly	Leu	Cys	Gly	Phe	Pro
			20					25					30		

Pro	Lys	Ser	Arg	Leu	Met	Pro	Leu	Ile	Pro	Ser	Gln	Glu	Val	Ala	Glu
		35					40					45			

Gly	Leu	Gly	Ser	Val	Gln	Ala	Pro	Arg	Gly	Gly	Asp	Val	Gln	Val	Lys
	50					55					60				

Gln	Gly	Val	Cys	Arg	Arg	Arg	Gly	Ser	Leu	Pro	Trp	Ala	Gly	Cys	Gln
65					70					75					80

His	Leu	Gly	Val	Pro	Gly	Cys	Gln	Glu	Lys	Phe	Thr	His	Thr	Arg	Ala
				85					90					95	

Leu	Leu	Ala	Lys	Gly	Glu	Ser	Tyr	Asp	Gly	Arg	Ala	Arg	Ala	Leu	Ser
			100					105					110		

Arg	His	Gln	Val	Cys	Ser	Gln	Ser	Ser	Arg	Ser	Ala	Pro	Val	Thr	Trp
		115					120					125			

Asn	Arg	Pro	Ala	Phe	Arg	Gly	Leu	Ser	Phe	Leu	Ile	Cys	Leu	Met	Gly
	130					135					140				

Ile	Ala	Ile	Pro	Thr	Phe	Pro	Val	Leu	Val	Gly	Phe	Ser	Leu	Asp	Ala
145					150					155					160

Gln	Glu	Thr	Ala	Ala	Xaa	Glu	Gly	Leu	Phe	Gly	Xaa	Leu	Phe	His	Val
			165						170					175	

Thr	Pro	Leu	Leu	Pro	Cys	Pro	His	Gly	Ala	Gly	Gly	Ala	Gly	Ala	Trp
		180						185					190		

4988

<210> 5674

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5674

Leu	Cys	Asn	Cys	Ile	Thr	Val	Thr	Asn	Glu	Ile	Leu	Ser	Leu	Leu	Leu
1				5					10					15	

Ser	Ile	Cys	Pro	Lys	Lys	Pro	Pro	Pro	His	Val	Leu	Ser	Gly	Glu	Leu
			20					25					30		

Pro	Xaa	His	Phe	Trp	Xaa	Thr	Ala	Gln	Ile	Asn	Ser
		35					40				

<210> 5675

<211> 92

<212> PRT

<213> Homo sapiens

<400> 5675

Glu	Tyr	Ser	Ser	Leu	Ser	Pro	Arg	Ile	Asp	Ser	Ile	Thr	Gln	Ser	Asn
1				5					10					15	

Ile	Asn	Leu	Asn	Gly	Leu	Ala	Pro	Ser	Phe	Phe	Ser	Lys	Asn	Asn	Gln
			20					25					30		

Leu	Ile	Lys	Lys	Lys	Phe	Glu	Gly	Leu	Asn	Tyr	Phe	Asn	Gly	Cys	Leu
		35					40					45			

Lys	Tyr	Ser	Val	Gln	Phe	Val	Pro	Val	Ser	Ser	Leu	Ser	Val	Trp	Gly
	50					55					60				

Arg	Ile	Lys	Tyr	Cys	Ala	Lys	Leu	Val	Leu	Gly	Tyr	Ile	Leu	Gln	His
65					70					75				80	

Leu	Val	Phe	Tyr	Leu	Thr	Asn	Arg	Ile	Leu	Val	Pro
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4989

85

90

<210> 5676

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5676

Ala	Arg	Met	Phe	Thr	Phe	Gly	Arg	Leu	Phe	Gln	Ile	Ile	Thr	Val	Val
1				5					10					15	

Thr	Cys	Leu	Gln	Phe	Ile	Gln	Asp	Cys	Cys	Ile	His	Ser	Arg	Gln	Ile
		20					25					30			

Asn	Ser	Leu	Leu	Glu	Thr	Ser	Ser	Leu	Ser	Arg	Cys	Leu	Glu	Xaa	Pro
		35					40					45			

Asp	Val	Cys
	50	

<210> 5677

<211> 486

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (197)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (203)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (483)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5677

Gln	Val	Gln	Ile	Arg	Ile	Leu	Asp	Val	Asn	Asp	Asn	Ile	Pro	Val	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4990

1	5	10	15
Glu Asn Lys Val Leu Glu Gly Met Val Glu Glu Asn Gln Val Asn Val	20	25	30
Glu Val Thr Arg Ile Lys Val Phe Asp Ala Asp Glu Ile Gly Ser Asp	35	40	45
Asn Trp Leu Ala Asn Phe Thr Phe Ala Ser Gly Asn Glu Gly Gly Tyr	50	55	60
Phe His Ile Glu Thr Asp Ala Gln Thr Asn Glu Gly Ile Val Thr Leu	65	70	75
Ile Lys Glu Val Asp Tyr Glu Glu Met Lys Asn Leu Asp Phe Ser Val	85	90	95
Ile Val Ala Asn Lys Ala Ala Phe His Lys Ser Ile Arg Ser Lys Tyr	100	105	110
Lys Pro Thr Pro Ile Pro Ile Lys Val Lys Val Lys Asn Val Lys Glu	115	120	125
Gly Ile His Phe Lys Ser Ser Val Ile Ser Ile Tyr Val Ser Glu Ser	130	135	140
Met Asp Arg Ser Ser Lys Gly Gln Ile Ile Gly Asn Phe Gln Ala Phe	145	150	155
Asp Glu Asp Thr Gly Leu Pro Ala His Ala Arg Tyr Val Lys Leu Glu	165	170	175
Asp Arg Asp Asn Trp Ile Ser Val Asp Ser Val Thr Ser Glu Ile Lys	180	185	190
Leu Ala Lys Leu Xaa Asp Phe Glu Ser Arg Xaa Val Gln Asn Gly Thr	195	200	205
Tyr Thr Val Lys Ile Val Ala Ile Ser Glu Asp Tyr Pro Arg Lys Thr	210	215	220
Ile Thr Gly Thr Val Leu Ile Asn Val Glu Asp Ile Asn Asp Asn Cys	225	230	235
Pro Thr Leu Ile Glu Pro Val Gln Thr Ile Cys His Asp Ala Glu Tyr	245	250	255
Val Asn Val Thr Ala Glu Asp Leu Asp Gly His Pro Asn Ser Gly Pro	260	265	270
Phe Ser Phe Ser Val Ile Asp Lys Pro Pro Gly Met Ala Glu Lys Trp			

4991

275					280					285					
Lys	Ile	Ala	Arg	Gln	Glu	Ser	Thr	Ser	Val	Leu	Leu	Gln	Gln	Ser	Glu
290						295					300				
Lys	Lys	Leu	Gly	Arg	Ser	Glu	Ile	Gln	Phe	Leu	Ile	Ser	Asp	Asn	Gln
305					310					315					320
Gly	Phe	Ser	Cys	Pro	Glu	Lys	Gln	Val	Leu	Thr	Leu	Thr	Val	Cys	Glu
				325					330					335	
Cys	Leu	His	Gly	Ser	Gly	Cys	Arg	Glu	Ala	Gln	His	Asp	Ser	Tyr	Val
			340					345					350		
Gly	Leu	Gly	Pro	Ala	Ala	Ile	Ala	Leu	Met	Ile	Leu	Ala	Phe	Leu	Leu
		355					360					365			
Leu	Leu	Leu	Val	Pro	Leu	Leu	Leu	Leu	Met	Cys	His	Cys	Gly	Lys	Gly
	370					375					380				
Ala	Lys	Gly	Phe	Thr	Pro	Ile	Pro	Gly	Thr	Ile	Glu	Met	Leu	His	Pro
385					390					395					400
Trp	Asn	Asn	Glu	Gly	Ala	Pro	Pro	Glu	Asp	Lys	Val	Val	Pro	Ser	Phe
				405					410					415	
Leu	Pro	Val	Asp	Gln	Gly	Gly	Ser	Leu	Val	Gly	Arg	Asn	Gly	Val	Gly
			420					425					430		
Gly	Met	Ala	Lys	Glu	Ala	Thr	Met	Lys	Gly	Ser	Ser	Ser	Ala	Ser	Ile
		435					440					445			
Val	Lys	Gly	Gln	His	Glu	Met	Ser	Glu	Met	Asp	Gly	Arg	Trp	Glu	Glu
	450					455					460				
His	Arg	Ser	Leu	Leu	Ser	Gly	Arg	Ala	Thr	Gln	Phe	Thr	Gly	Ala	Thr
465					470					475					480
Gly	Ala	Xaa	His	Asp	His										
				485											

<210> 5678

<211> 311

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (135)

4992

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5678

Ala	Ile	Val	Pro	Ser	Trp	Asp	Leu	Asp	Lys	Asp	Thr	Ile	Ser	Leu	Leu
1				5					10					15	

Ser	Pro	Val	Leu	Cys	Ile	Phe	Pro	Ser	Pro	Ser	Ser	Gln	Thr	Ser	Leu
			20					25					30		

Leu	Tyr	Val	Phe	Ser	Leu	Ala	Gly	Arg	Met	Thr	Gln	Asn	Thr	Val	Ile
		35					40					45			

Val	Asn	Gly	Val	Ala	Met	Ala	Ser	Arg	Pro	Ser	Gln	Pro	Thr	His	Val
	50					55					60				

Asn	Val	His	Ile	His	Gln	Glu	Ser	Ala	Leu	Thr	Gln	Leu	Leu	Lys	Ala
65					70					75					80

Gly	Gly	Ser	Leu	Lys	Lys	Phe	Leu	Phe	His	Pro	Gly	Asp	Thr	Val	Pro
				85					90					95	

Ser	Thr	Ala	Arg	Ile	Gly	Tyr	Glu	Gln	Leu	Ala	Leu	Gly	Val	Thr	Gln
			100					105					110		

Ile	Leu	Leu	Gly	Val	Val	Ser	Cys	Val	Leu	Gly	Val	Cys	Leu	Ser	Leu
		115					120					125			

Gly	Pro	Trp	Thr	Val	Leu	Xaa	Ala	Ser	Gly	Cys	Ala	Phe	Trp	Ala	Gly
	130					135					140				

Ser	Val	Val	Ile	Ala	Ala	Gly	Ala	Gly	Ala	Ile	Val	His	Glu	Lys	His
145					150					155					160

Pro	Gly	Lys	Leu	Ala	Gly	Tyr	Ile	Ser	Ser	Leu	Leu	Thr	Leu	Xaa	Gly
			165						170					175	

Phe	Ala	Thr	Ala	Met	Ala	Ala	Val	Val	Leu	Cys	Val	Asn	Ser	Phe	Ile
			180					185					190		

Trp	Gln	Thr	Glu	Pro	Phe	Leu	Tyr	Ile	Asp	Thr	Val	Cys	Asp	Arg	Ser
		195					200					205			

Asp	Pro	Val	Phe	Pro	Thr	Thr	Gly	Tyr	Arg	Trp	Met	Arg	Arg	Ser	Gln
	210					215					220				

Glu	Asn	Gln	Trp	Gln	Lys	Glu	Glu	Cys	Arg	Ala	Tyr	Met	Gln	Met	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4993

225 230 235 240
 Arg Lys Leu Phe Thr Ala Ile Arg Ala Leu Phe Leu Ala Val Cys Val
 245 250 255
 Leu Lys Val Ile Val Ser Leu Val Ser Leu Gly Val Gly Leu Arg Asn
 260 265 270
 Leu Cys Gly Gln Ser Ser Gln Pro Leu Asn Glu Glu Gly Ser Glu Lys
 275 280 285
 Arg Leu Leu Gly Glu Asn Ser Val Pro Pro Ser Pro Ser Arg Glu Gln
 290 295 300
 Thr Ser Thr Ala Ile Val Leu
 305 310

<210> 5679

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5679

Ala Gln Trp Leu Pro Leu Glu Glu Arg Gly Ala Glu Thr Glu Thr Lys
 1 5 10 15
 Val Gln Glu Arg Glu Asn Gly Glu Ser Pro Leu Glu Leu Glu Gln Leu
 20 25 30
 Asp Gln His His Glu Met Lys Glu Thr Asn Glu Gln Lys Leu His Lys
 35 40 45
 Ile Ala Asn Glu Leu Leu Leu Thr Glu Arg Ala Tyr Val Asn Arg Leu
 50 55 60
 Asp Leu Leu Asp Gln Val Phe Tyr Cys Lys Leu Leu Glu Glu Ala Asn
 65 70 75 80
 Arg Gly Ser Phe Xaa Ala Glu Met Val Ile Lys Ser Phe Leu Ile Phe
 85 90 95
 His Gln

4994

<210> 5680

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5680

Ala Arg Lys Glu Ile Gln Tyr Cys Phe Trp Thr Leu Ile Lys Ser Cys
1 5 10 15

Ala Ile Asp Thr Tyr Met Ser His Leu Ala Val Leu Arg Arg Ala Ile
20 25 30

Ile Thr Leu Gln Leu Thr Leu Glu Asn Ile Leu Ala Phe Glu His Phe
35 40 45

Ser Asn Asn Gln Val Asp Ser Arg Gly Ser
50 55

<210> 5681

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5681

Ser Leu Thr Ser Lys Pro Glu Thr Ser Glu Ile Leu Lys Ala Asn Leu
1 5 10 15

Phe Ser Leu Leu Cys Ile Lys Phe Ile Tyr Leu Lys Cys Tyr Cys Ser
20 25 30

Trp Leu Arg Ile Ile Leu Cys Lys Phe Ser Phe Phe Val Val Cys Leu
35 40 45

Phe Ala Cys Cys Ser Pro
50

<210> 5682

<211> 486

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

4995

<220>

<221> SITE

<222> (326)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (400)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (406)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5682

Ser	Ser	Thr	Ala	Val	Thr	Xaa	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly
1				5				10				15			

Cys	Arg	Asn	Ser	Ala	Arg	Gly	Tyr	Ile	Gln	Tyr	Gly	Asn	Glu	Glu	Gln
			20					25				30			

Arg	Lys	Gln	Ala	Phe	Glu	Glu	Leu	Arg	Asp	Asp	Leu	Val	Glu	Leu	Ser
		35					40				45				

Lys	Ala	Lys	Tyr	Ser	Arg	Asn	Ile	Val	Lys	Lys	Phe	Leu	Met	Tyr	Gly
50						55					60				

Ser	Lys	Pro	Gln	Ile	Ala	Glu	Ile	Ile	Arg	Ser	Phe	Lys	Gly	His	Val
65					70					75					80

Arg	Lys	Met	Leu	Arg	His	Ala	Glu	Ala	Ser	Ala	Ile	Val	Glu	Tyr	Ala
			85						90					95	

Tyr	Asn	Asp	Lys	Ala	Ile	Leu	Glu	Gln	Arg	Asn	Met	Leu	Thr	Glu	Glu
			100					105				110			

Leu	Tyr	Gly	Asn	Thr	Phe	Gln	Leu	Tyr	Lys	Ser	Ala	Asp	His	Arg	Thr
		115					120					125			

Leu	Asp	Lys	Val	Leu	Glu	Val	Gln	Pro	Glu	Lys	Leu	Glu	Leu	Ile	Met
	130					135					140				

Asp	Glu	Met	Lys	Gln	Ile	Leu	Thr	Pro	Met	Ala	Gln	Lys	Glu	Ala	Val
145					150					155					160

Ile	Lys	His	Ser	Leu	Val	His	Lys	Val	Phe	Leu	Asp	Phe	Phe	Thr	Tyr
				165					170					175	

Ala	Pro	Pro	Lys	Leu	Arg	Ser	Glu	Met	Ile	Glu	Ala	Ile	Arg	Glu	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4996

180	185	190
Val Val Tyr Leu Ala His Thr His Asp Gly Ala Arg Val Ala Met His		
195	200	205
Cys Leu Trp His Gly Thr Pro Lys Asp Arg Lys Val Ile Val Lys Thr		
210	215	220
Met Lys Thr Tyr Val Glu Lys Val Ala Asn Gly Gln Tyr Ser His Leu		
225	230	235
Val Leu Leu Ala Ala Phe Asp Cys Ile Asp Asp Thr Lys Leu Val Lys		
	245	250
Gln Ile Ile Ile Ser Glu Ile Ile Ser Ser Leu Pro Ser Ile Val Asn		
	260	265
Asp Lys Tyr Gly Arg Lys Val Leu Leu Tyr Leu Leu Ser Pro Arg Asp		
	275	280
Pro Ala His Thr Val Arg Glu Ile Ile Glu Val Leu Gln Lys Gly Asp		
	290	295
Gly Asn Ala His Ser Lys Lys Asp Thr Glu Val Arg Arg Arg Glu Leu		
305	310	315
Leu Glu Ser Ile Ser Xaa Ala Leu Leu Ser Tyr Leu Gln Glu His Ala		
	325	330
Gln Glu Val Val Leu Asp Lys Ser Ala Cys Val Leu Val Ser Asp Ile		
	340	345
Leu Gly Ser Ala Thr Gly Asp Val Gln Pro Thr Met Asn Ala Ile Ala		
	355	360
Ser Leu Ala Ala Thr Gly Leu His Pro Gly Gly Lys Asp Gly Glu Leu		
	370	375
His Ile Ala Glu His Pro Ala Gly His Leu Val Leu Lys Trp Leu Xaa		
385	390	395
Glu Gln Asp Lys Lys Xaa Lys Glu Asn Gly Arg Glu Gly Cys Phe Ala		
	405	410
Lys Thr Leu Val Glu His Val Gly Met Lys Asn Leu Lys Ser Trp Ala		
	420	425
Ser Val Asn Arg Gly Ala Ile Ile Leu Ser Ser Leu Leu Gln Ser Cys		
	435	440
Asp Leu Glu Val Ala Asn Lys Val Lys Ala Ala Leu Lys Ser Leu Ile		

4997

450 455 460

Pro Thr Leu Glu Lys Thr Lys Ser Thr Ser Lys Gly Ile Glu Ile Leu
465 470 475 480

Leu Glu Lys Leu Ser Thr
485

<210> 5683

$\langle 211 \rangle$ 213

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5683

Val Leu Asp Val Ala Ala Gly Met Ile Lys Pro Gly Val Thr Thr Glu
1 5 10 15

Glu Ile Asp His Ala Val His Leu Ala Cys Ile Ala Arg Asn Cys Tyr
20 25 30

Pro Ser Pro Leu Asn Tyr Tyr Asn Phe Pro Lys Ser Cys Cys Thr Ser
35 40 45

Val Asn Glu Val Ile Cys His Gly Ile Pro Asp Arg Arg Pro Leu Gln
50 55 60

Glu Gly Asp Ile Val Asn Val Asp Ile Thr Leu Tyr Arg Asn Gly Tyr
65 70 75 80

His Gly Asp Leu Asn Glu Thr Phe Phe Xaa Gly Glu Val Asp Asp Gly
85 90 95

Ala Arg Lys Leu Val Gln Thr Thr Tyr Glu Cys Leu Met Gln Ala Ile
100 105 110

Asp Ala Val Lys Pro Gly Val Arg Tyr Arg Glu Leu Gly Asn Ile Ile
115 120 125

Gln Lys His Ala Gln Ala Asn Gly Phe Xaa Val Val Arg Ser Tyr Cys

4998

130 135 140
 Gly His Gly Asn Pro Gln Ala Phe Ser Tyr Ser Ser Gln Cys Thr Pro
 145 150 155 160
 Leu Cys Leu Lys Ile Lys Gln Leu Gly Val Met Glu Val Gly Pro Cys
 165 170 175
 Ile Tyr Asn Trp Ser Gln Trp Phe Val Glu Gly Gly Trp Gln Asp Gly
 180 185 190
 Asn Leu Gly Gln Met Val Gly Thr Ala Val Asp Lys Arg Arg Glu Ser
 195 200 205
 Gly Leu Leu Gln Phe
 210

<210> 5684

<211> 279

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (256)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (257)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5684

Thr His Ala Ser Ala His Thr Thr Asn Pro Glu Gln Thr Leu Pro Gly
 1 5 10 15

Thr Asn Leu Thr Gly Phe Leu Ser Pro Val Asp Asn His Met Arg Asn
 20 25 30

4999

Leu Thr Ser Gln Asp Leu Xaa Tyr Asp Leu Asp Ile Asn Ile Phe Asp
 35 40 45
 Glu Ile Asn Leu Met Ser Leu Ala Thr Glu Asp Asn Phe Asp Pro Ile
 50 55 60
 Asp Val Ser Gln Leu Phe Asp Glu Pro Asp Ser Asp Ser Gly Leu Ser
 65 70 75 80
 Leu Asp Ser Ser His Asn Asn Thr Ser Val Ile Lys Ser Asn Ser Ser
 85 90 95
 His Ser Val Cys Asp Glu Gly Ala Ile Gly Tyr Cys Thr Asp His Glu
 100 105 110
 Ser Ser Ser His His Asp Leu Glu Gly Ala Val Gly Gly Tyr Tyr Pro
 115 120 125
 Glu Pro Ser Lys Leu Cys His Leu Asp Gln Ser Asp Ser Asp Phe His
 130 135 140
 Gly Asp Leu Thr Phe Gln His Val Phe His Asn His Thr Tyr His Leu
 145 150 155 160
 Gln Pro Thr Ala Pro Glu Ser Thr Ser Glu Pro Phe Pro Trp Pro Gly
 165 170 175
 Lys Ser Gln Lys Ile Arg Ser Arg Tyr Leu Glu Asp Thr Asp Arg Asn
 180 185 190
 Leu Ser Arg Asp Glu Gln Arg Ala Lys Ala Leu His Ile Pro Phe Ser
 195 200 205
 Val Asp Glu Ile Val Gly Met Pro Val Asp Ser Phe Asn Ser Met Leu
 210 215 220
 Ser Arg Tyr Tyr Leu Thr Asp Leu Gln Val Ser Leu Ile Arg Asp Ile
 225 230 235 240
 Arg Arg Arg Gly Lys Asn Lys Val Ala Ala Xaa Asn Cys Arg Lys Xaa
 245 250 255
 Xaa Leu Asp Ile Ile Leu Asn Leu Glu Asp Asp Gly Met Val Thr Trp
 260 265 270
 Pro Ala Lys Lys Gly Asn Pro
 275

<210> 5685

5000

<211> 234

<212> PRT

<213> Homo sapiens

<400> 5685

Lys Asn Leu Thr Glu Asn Gln Glu Ala Leu Ala Lys Glu Met Arg Ala
 1 5 10 15

Asp Ala Asp Ala Tyr Arg Arg Lys Val Asp Leu Glu Glu His Met Phe
 20 25 30

His Lys Leu Ile Glu Ala Gly Glu Thr Gln Ser Gln Lys Thr Gln Lys
 35 40 45

Val Ile Lys Glu Asn Leu Ala Lys Ala Glu Gln Ala Cys Leu Asn Thr
 50 55 60

Asp Trp Gln Ile Gln Ser Leu His Lys Gln Lys Cys Asp Asp Leu Gln
 65 70 75 80

Arg Asn Lys Cys Tyr Gln Glu Val Ala Lys Leu Leu Arg Glu Asn Arg
 85 90 95

Arg Lys Glu Ile Glu Ile Ile Asn Ala Met Val Glu Glu Glu Ala Lys
 100 105 110

Lys Trp Lys Glu Ala Glu Gly Lys Glu Phe Arg Leu Arg Ser Ala Lys
 115 120 125

Lys Ala Ser Ala Leu Ser Asp Ala Ser Arg Lys Trp Phe Leu Lys Gln
 130 135 140

Glu Ile Asn Ala Ala Val Glu His Ala Glu Asn Pro Cys His Lys Glu
 145 150 155 160

Glu Pro Arg Phe Gln Asn Glu Gln Asp Ser Ser Cys Leu Pro Arg Thr
 165 170 175

Ser Gln Leu Asn Asp Ser Ser Glu Met Asp Pro Ser Thr Gln Ile Ser
 180 185 190

Leu Asn Arg Arg Ala Val Glu Trp Asp Thr Thr Gly Gln Asn Leu Ile
 195 200 205

Lys Lys Val Arg Asn Leu Arg Gln Arg Leu Thr Ala Arg Ala Arg His
 210 215 220

Arg Cys Gln Thr Pro His Leu Leu Ala Ala
 225 230

5001

<210> 5686

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5686

Glu	Ile	Lys	Phe	Cys	Phe	Tyr	Leu	Gly	Thr	Arg	Ala	Leu	Gln	Asp	Leu
1				5					10					15	

Ile	Pro	Ala	Tyr	Leu	Ser	Ser	Leu	Asp	Ser	Leu	Tyr	Ser	Ser	Ile	Trp
			20					25					30		

Lys	Cys	Gly	Pro	Trp	Thr	Glu	Ala	Leu	Pro	Asn	Asn	Ala	Glu	His	Leu
		35					40					45			

Val	Leu	Pro	Phe	Ala	Arg	Met	Val	Leu	Met	Val	Pro	Lys	Ile	Thr	Ala
	50					55					60				

Ser	Xaa	Pro	Lys	Phe	Arg	Thr	Gln	Ile	Thr	Leu	Trp	Arg	Arg	Pro	Gln
65					70					75					80

Pro	Leu	Ala	Xaa	Ala	Phe	Lys	Ala	Leu	Arg	Asp	Leu	Asp	Thr	Arg	Leu
				85					90					95	

Ala	Leu	Ile	Tyr	Ile	Tyr	Phe	Lys	Ser	Ile	Ser	Ser	Leu	Ser	His	Ala
		100						105					110		

His

<210> 5687

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5687

Leu	Asp	Ile	Lys	Thr	Ser	Tyr	Ser	Leu	Asn	Pro	Lys	Ala	Lys	Leu	Met
1					5					10				15	

5002

Ser Arg Ala Asn Gln Ser Ser Trp Gly Gln Asn Arg Thr Lys Thr Tyr
 20 25 30
 Leu Met Gln Gly Ile Glu Ala Arg Pro Lys Thr Gly Gln Pro Asn Arg
 35 40 45
 Met Gly His Leu Pro Pro Leu Met Pro Ala Cys Pro Ser Val Ile Ile
 50 55 60
 Asn Ser Ala Pro Phe His Ser Pro Lys Ser Pro Val Gln Thr
 65 70 75

<210> 5688

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5688

Leu Ser Leu Thr Lys Gly Asn Lys Ser Xaa Xaa Ser Thr Ala Val Ala
 1 5 10 15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
 20 25 30

Ala Ser Asn Leu Tyr Phe Tyr Leu Leu Cys Ile
 35 40

<210> 5689

<211> 51

<212> PRT

<213> Homo sapiens

<400> 5689

Thr Thr Tyr Cys Phe Pro Leu Phe Gln Gly Asp Ala Val Asp Tyr Gln
 1 5 10 15

5003

Lys Gln Leu Lys Gln Met Ile Lys Asp Leu Ala Lys Glu Lys Asp Lys
20 25 30
Thr Glu Lys Glu Leu Pro Lys Met Ser Gln Val Trp Thr Phe Phe Ser
35 40 45
Ala Glu Asn
50

<210> 5690
<211> 35
<212> PRT
<213> Homo sapiens

<400> 5690
Glu Ala Leu Val Asp Phe Leu Tyr Trp Tyr Phe Arg Ser Leu Leu Ser
1 5 10 15
Phe Leu Thr Glu Val Gly Ala Asn Glu Leu Ser Ile Leu Ser Thr Trp
20 25 30
Leu Ile Lys
35

<210> 5691
<211> 32
<212> PRT
<213> Homo sapiens

<400> 5691
Gly Asn Lys Ser Trp Gly Ser Thr Ala Val Thr Thr Ala Leu Glu Leu
1 5 10 15
Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Tyr Lys Leu Ser
20 25 30

<210> 5692
<211> 74
<212> PRT
<213> Homo sapiens

<400> 5692

5004

Gly Thr Leu Leu Lys Phe Leu Cys Lys Leu Gly Leu Phe Phe Ser Leu
 1 5 10 15
 Ser Cys Val Ser Arg Thr Val Gly Val Pro Gly Leu Leu Ser Cys Trp
 20 25 30
 Val Gln Ala Ser Arg Ile Leu Arg Arg Cys Glu Glu Glu Val Arg Lys
 35 40 45
 Ile Gly Gly Asn Arg Lys Glu Lys Glu Ile Trp Pro Arg Phe Trp Gly
 50 55 60
 Glu Lys Val Trp Gly Lys Ser Lys Gly Asn
 65 70

<210> 5693
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 5693
 Glu Asn Ala Cys Lys Ala Leu Gly Ile Val His Asp Val Asn Thr Gln
 1 5 10 15
 Met Leu Leu Lys Ser Ile Asn Val Asn Tyr Phe Leu Ala His Phe Ser
 20 25 30
 Gly Leu Ile Ser Pro Val Lys Met Ile His Ser Ile Leu Phe Asn Gly
 35 40 45
 Phe Met
 50

<210> 5694
 <211> 147
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring L-amino acids

5005

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5694

Gly	Leu	Gly	Cys	Ala	Leu	Ala	Gln	Val	Leu	Cys	Gly	Asp	Ala	Arg	Gln
1				5					10					15	

His	Ile	Leu	Leu	Arg	Asp	Asp	Thr	Leu	Ser	Gly	Gln	His	Arg	Pro	Val
			20					25					30		

Thr	Ile	Xaa	Ser	Leu	Ala	Thr	Ser	Leu	Ser	Pro	Ala	Ser	Pro	Ser	Leu
		35					40					45			

Asp	Thr	Arg	Pro	Gln	Thr	Pro	Gly	Ser	Gly	Arg	Gly	Gly	Trp	Thr	Ser
	50					55					60				

Leu	His	Thr	Pro	Ala	Gly	Arg	Gly	Gln	Val	Pro	Arg	Ser	Pro	Met	Trp
65					70					75					80

Arg	Ala	Gly	Pro	Gly	Ala	Ala	Gln	Ala	Gly	Gly	Xaa	Asn	Trp	Gly	Leu
				85					90					95	

Arg	Val	Leu	Arg	Arg	Arg	Val	Lys	Ile	Ile	Lys	Gly	Ala	Thr	Glu	Ser
			100					105					110		

Lys	Arg	Arg	Glu	Gly	Leu	Val	Pro	Asn	Ser	Cys	Ser	Pro	Gly	Asp	Pro
		115					120					125			

Leu	Val	Leu	Glu	Arg	Xaa	Pro	Pro	Arg	Trp	Ser	Xaa	Ser	Phe	Val	Pro
	130					135					140				

Leu	Val	Arg
145		

<210> 5695

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5695

Val	Phe	Ser	Gly	Met	His	Arg	Phe	Ile	Ile	Phe	Ser	Thr	Leu	Lys	Met
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5006

1 5 10 15
 Arg Ala Phe Lys Ser Val His Tyr Leu Tyr Ser Pro Val Leu Ser Ile
 20 25 30
 Val Tyr Ile Ile Tyr Met Ile Lys Glu Asn Met His Asn Gln Thr Ser
 35 40 45
 Leu Asn Ile Val Phe Ala Pro Asp Glu Gln
 50 55

<210> 5696

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5696

Thr Arg Cys Lys Arg Phe Val Asn Ser Leu Ala Pro Lys Leu Ser His
 1 5 10 15
 Trp Arg Arg Asp Phe Xaa His Tyr Ala Glu Ser Gly Trp Val Glu Phe
 20 25 30
 Arg Thr Ala Thr Leu Val Ala Glu Glu Leu His Gln Leu Gly Tyr Ser
 35 40 45
 Leu Ala Leu Gly Arg Glu
 50

<210> 5697

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5697

Gln Gln Phe Gly Arg Asp Gly Ser Pro Ala Ala Tyr Val Gly Gly Pro
 1 5 10 15
 Ser Val Gly Leu Arg Val Arg Val Ala Met Ala Val Asp Ile Thr Leu
 20 25 30
 Leu Phe Arg Ala Ser Val Lys Thr Val Lys Thr Arg Asn Lys Arg Trp

5007

35 40 45
 Glu Trp Arg Trp Ala Thr Gly Ser Met
 50 55

 <210> 5698
 <211> 92
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5698
 Gln Lys Ser Pro Ser Val Glu Asp Gly Leu Lys Gly Arg Asp Gln Thr
 1 5 10 15

 Xaa Met Asp Thr Asn Pro Lys Thr Glu Asp Ala Pro Cys Leu Pro His
 20 25 30

 Glu Ala Tyr Leu Ser Ala Cys Val Ser Met Ile Ala Gly Ile Glu Leu
 35 40 45

 Leu Gly Thr Ser Arg Met Ile Tyr Leu Ala Ile Cys Phe Leu His Ser
 50 55 60

 Lys Asn Gln Asn Gly Pro Val Ile Pro Asn Arg Glu Asn Arg Ala Asn
 65 70 75 80

 Ser Leu Phe Ser Pro Leu Pro Ser Glu Ala Ser Phe
 85 90

<210> 5699
 <211> 122
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (108)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5699
 Gly Arg Gly Trp Gly Trp Glu Gly Thr Val Leu Pro Gly Glu Ala Glu
 1 5 10 15

5008

Glu Asp Arg Val Gly Leu Arg Ala Arg Arg Arg Pro Ser Arg Leu Leu
 20 25 30
 Ala Pro Leu Ala Trp Cys Pro Ala Pro Gly Arg Glu Ala Ala Gly Leu
 35 40 45
 Asp Arg Ala Gly Leu Pro Gly Gly Ala Arg Ala Leu Ala Ala Gly Arg
 50 55 60
 Pro Leu Leu Ser Ala Met Ala Gly Leu His Pro Trp Val Ile Phe Ser
 65 70 75 80
 Gly Pro Leu Trp Pro Leu Leu Thr Pro Arg Glu Gln Thr Thr Arg Thr
 85 90 95
 Thr Gln Glu Gln Ile Lys Ser Arg Pro Gln Pro Xaa Arg Glu Arg Ala
 100 105 110
 Ser Ile Leu Phe Ala Pro Arg Val Ala Val
 115 120

<210> 5700

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5700

Ala Glu Leu Thr Pro Ser Ser Lys Leu Thr Val Asp Thr Asp Thr Leu
 1 5 10 15
 Thr Pro Ser Ser Thr Leu Cys Glu Asn Ser Val Ser Glu Leu Leu Thr
 20 25 30
 Pro Ala Lys Ala Glu Xaa Ser Xaa His Pro Asn Ser Asp Phe Phe Gly
 35 40 45
 Gln Glu Gly Glu Thr Gln Phe Gly Phe Pro Asn Ala Ala Gly Asn His
 50 55 60

5009

Gly Ser Gln Lys Glu Arg Asn Leu Ile Thr Val Thr Gly Ser Ser Phe
 65 70 75 80

Leu Val

<210> 5701

<211> 316

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5701

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Thr Gly Xaa Asn Asn
 1 5 10 15

Thr Lys Ala Phe Glu Val Pro Ala Xaa Ala Asn Phe Leu Asn Ser Asn
 20 25 30

Asp Val Phe Val Leu Lys Thr Gln Ser Cys Cys Tyr Leu Trp Cys Gly
 35 40 45

Lys Gly Cys Ser Gly Asp Glu Arg Glu Met Ala Lys Met Val Ala Asp
 50 55 60

Thr Ile Ser Arg Thr Glu Lys Gln Val Val Val Glu Gly Gln Glu Pro
 65 70 75 80

Ala Asn Phe Trp Met Ala Leu Gly Gly Lys Ala Pro Tyr Ala Asn Thr
 85 90 95

Lys Arg Leu Gln Glu Glu Asn Leu Val Ile Thr Pro Arg Leu Phe Glu
 100 105 110

Cys Ser Asn Lys Thr Gly Arg Phe Leu Ala Thr Glu Ile Pro Asp Phe
 115 120 125

Asn Gln Asp Asp Leu Glu Glu Asp Asp Val Phe Leu Leu Asp Val Trp
 130 135 140

5010

Asp Gln Val Phe Phe Trp Ile Gly Lys His Ala Asn Glu Glu Glu Lys
145 150 155 160

Lys Ala Ala Ala Thr Thr Ala Gln Glu Tyr Leu Lys Thr His Pro Ser
165 170 175

Gly Arg Asp Pro Glu Thr Pro Ile Ile Val Val Lys Gln Gly His Glu
180 185 190

Pro Pro Thr Phe Thr Gly Trp Phe Leu Ala Trp Asp Pro Phe Lys Trp
195 200 205

Ser Asn Thr Lys Ser Tyr Glu Asp Leu Lys Ala Glu Leu Gly Asn Ser
210 215 220

Arg Asp Trp Ser Gln Ile Thr Ala Glu Val Thr Ser Pro Lys Val Asp
225 230 235 240

Val Phe Asn Ala Asn Ser Asn Leu Ser Ser Gly Pro Leu Pro Ile Phe
245 250 255

Pro Leu Glu Gln Leu Val Asn Lys Pro Val Glu Glu Leu Pro Glu Gly
260 265 270

Val Asp Pro Ser Arg Lys Glu Glu His Leu Ser Ile Glu Asp Phe Thr
275 280 285

Gln Ala Phe Gly Met Thr Pro Ala Ala Phe Ser Ala Leu Pro Arg Trp
290 295 300

Lys Gln Gln Asn Leu Lys Lys Glu Lys Gly Leu Phe
305 310 315

<210> 5702

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

5011

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5702

Gly Lys Lys Glu Glu Asn Asn Pro Val Ser Leu Glu Val Gly Val Trp
 1 5 10 15

Val Gly Thr Gly Asp Pro Gly Val Val Met Met Lys Thr Arg Ala Gly
 20 25 30

Phe Gly Gly Arg Leu Arg Leu Phe Arg Ser Leu Leu Ser Pro Pro Pro
 35 40 45

Ser Arg Ser Leu Pro Pro Pro Pro His Xaa Ser Ala Gly Lys Ala Ala
 50 55 60

Cys Ala Ala Pro Gly Gly Glu Met Val Asp Ala His Glu Leu Cys Met
 65 70 75 80

Trp Phe Leu Xaa Xaa Leu Ser Val Leu Gly Pro Val Phe Gly Gly Thr
 85 90 95

Pro Lys Gly

<210> 5703

<211> 292

<212> PRT

<213> Homo sapiens

<400> 5703

Leu Gln Ala Ile Pro Ala Lys Lys Ala Pro Leu Gln Leu Leu Ser Arg
 1 5 10 15

Leu Cys Gly Asp His Leu Gln Ala Ile Pro Ala Lys Lys Ala Pro Ala
 20 25 30

Gly Gln Glu Glu Pro Gly Thr Pro Pro Ser Ser Pro Leu Ser Ala Glu
 35 40 45

Gln Leu Asp Arg Ile Gln Arg Asn Lys Ala Ala Ala Leu Leu Arg Leu
 50 55 60

Ala Ala Arg Asn Val Pro Val Gly Phe Gly Glu Ser Trp Lys Lys His
 65 70 75 80

Leu Ser Gly Glu Phe Gly Lys Pro Tyr Phe Ile Lys Leu Met Gly Phe

5012

85										90					95									
Val	Ala	Glu	Glu	Arg	Lys	His	Tyr	Thr	Val	Tyr	Pro	Pro	Pro	His	Gln									
100										105					110									
Val	Phe	Thr	Trp	Thr	Gln	Met	Cys	Asp	Ile	Lys	Asp	Val	Lys	Val	Val									
115										120					125									
Ile	Leu	Gly	Gln	Asp	Pro	Tyr	His	Gly	Pro	Asn	Gln	Ala	His	Gly	Leu									
130										135					140									
Cys	Phe	Ser	Val	Gln	Arg	Pro	Val	Pro	Pro	Pro	Pro	Ser	Leu	Glu	Asn									
145										150					155					160				
Ile	Tyr	Lys	Glu	Leu	Ser	Thr	Asp	Ile	Glu	Asp	Phe	Val	His	Pro	Gly									
165										170					175									
His	Gly	Asp	Leu	Ser	Gly	Trp	Ala	Lys	Gln	Gly	Val	Leu	Leu	Leu	Asn									
180										185					190									
Ala	Val	Leu	Thr	Val	Arg	Ala	His	Gln	Ala	Asn	Ser	His	Lys	Glu	Arg									
195										200					205									
Gly	Trp	Glu	Gln	Phe	Thr	Asp	Ala	Val	Val	Ser	Trp	Leu	Asn	Gln	Asn									
210										215					220									
Ser	Asn	Gly	Leu	Val	Phe	Leu	Leu	Trp	Gly	Ser	Tyr	Ala	Gln	Lys	Lys									
225										230					235					240				
Gly	Ser	Ala	Ile	Asp	Arg	Lys	Arg	His	His	Val	Leu	Gln	Thr	Ala	His									
245										250					255									
Pro	Ser	Pro	Leu	Ser	Val	Tyr	Arg	Gly	Phe	Phe	Gly	Cys	Arg	His	Phe									
260										265					270									
Ser	Lys	Thr	Asn	Glu	Leu	Leu	Gln	Lys	Ser	Gly	Lys	Lys	Pro	Ile	Asp									
275										280					285									
Trp	Lys	Glu	Leu																					
290																								

<210> 5704

<211> 103

<212> PRT

<213> Homo sapiens

<400> 5704

Phe	Leu	Arg	Cys	Val	Asp	Leu	Asp	Gly	Arg	Cys	Asp	Met	Leu	Val	Phe
1				5					10					15	

5013

Leu Thr Cys Ile Tyr Leu Arg His Cys Tyr Arg Asp Thr Val Val Thr
 20 25 30
 Phe Trp Gly Thr Val Phe Gly Glu Arg Gly Val His Leu Asp Leu Cys
 35 40 45
 Gly Thr Val Gln Ile Val Met Trp Leu His Arg Lys Pro Cys Ala Lys
 50 55 60
 Asn Lys Leu His Leu Lys Asn Ile Lys Asn Leu Arg Phe Met Cys Phe
 65 70 75 80
 Leu Ser Phe Ser Leu Arg Lys Gln Lys Ser Ser Gly Leu Arg Tyr Leu
 85 90 95
 Thr Leu His Val Lys Thr Leu
 100

<210> 5705

<211> 173

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5705

Ala Ser Met Ala Thr Ala Ala Thr Glu Glu Pro Phe Pro Phe His Gly
 1 5 10 15

Leu Leu Pro Lys Lys Glu Thr Gly Ala Ala Ser Phe Leu Cys Arg Tyr

5014

20					25					30						
Pro	Glu	Tyr	Asp	Gly	Arg	Gly	Val	Leu	Ile	Ala	Val	Leu	Asp	Thr	Gly	
35					40					45						
Val	Asp	Pro	Gly	Ala	Pro	Gly	Met	Gln	Val	Thr	Thr	Asp	Gly	Lys	Pro	
50					55					60						
Lys	Ile	Val	Asp	Ile	Ile	Asp	Thr	Thr	Gly	Ser	Gly	Asp	Val	Asn	Thr	
65					70					75					80	
Ala	Thr	Glu	Val	Glu	Pro	Lys	Asp	Gly	Glu	Ile	Val	Gly	Leu	Ser	Gly	
85					90					95						
Arg	Val	Leu	Lys	Ile	Pro	Ala	Ser	Trp	Thr	Asn	Pro	Ser	Gly	Lys	Tyr	
100					105					110						
His	Ile	Gly	Ile	Lys	Asn	Gly	Tyr	Asp	Phe	Tyr	Pro	Lys	Ala	Leu	Lys	
115					120					125						
Glu	Arg	Xaa	Gln	Lys	Glu	Arg	Lys	Glu	Lys	Ile	Trp	Asp	Pro	Val	His	
130					135					140						
Arg	Xaa	Ala	Leu	Ala	Glu	Ala	Cys	Arg	Xaa	Gln	Glu	Xaa	Phe	Asp	Val	
145					150					155					160	
Ala	Asn	Asn	Gly	Ser	Ser	Gln	Ala	Asn	Lys	Leu	Ile	Lys				
165					170											

<210> 5706

<211> 77

<212> PRT

<213> Homo sapiens

<400> 5706

Thr Leu Val Ala Glu Ala Thr Met Asp Leu Leu Leu Gly Asp Ser Trp
1 5 10 15

Gly Ser Pro Arg Pro Pro Arg Ala Glu Arg Gly Asp Glu Glu Phe Gly
20 25 30

Thr Val Gly Glu Glu Met Gly Arg Asp Gly Ile Ser Gly Ser Gln Ser
35 40 45

Gly Trp Asp Thr His Ala Gln Leu Leu His Trp Trp Gly Val Gly His
50 55 60

Thr Leu Phe Leu Thr Gly His Asp Leu Gln Glu Glu Lys
65 70 75

5015

<210> 5707

<211> 53

<212> PRT

<213> Homo sapiens

<400> 5707

Ile	Gln	His	Leu	Met	Gln	Val	Ser	Ser	Trp	Val	Val	Phe	Gln	Leu	Val
1				5					10					15	
Trp	Asn	Ser	Leu	Val	Leu	Thr	Gln	Thr	Gly	Ile	Lys	His	Tyr	Phe	Arg
			20					25					30		
Phe	Ser	Leu	Cys	Gln	Phe	Leu	Ser	Ser	Tyr	Asn	His	Val	Asn	Gln	Asp
		35					40					45			
Val	Arg	Thr	Ser	Ile											
		50													

<210> 5708

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5708

Gln	Pro	Gln	Cys	Pro	Ala	Ser	Leu	Thr	Ser	Ser	Phe	Leu	Cys	Pro	Leu
1				5					10					15	
Cys	Gly	Ser	Leu	Leu	Leu	Val	Ser	Ala	Phe	Ser	Met	Leu	Arg	Thr	Lys
			20					25					30		
Ser	Pro	Ile	His	Cys	Leu	Cys	Ser	Arg	Lys	Leu	Gln	Lys	Asn	Lys	Glu
		35					40					45			
Pro	Asn	Tyr	Gln	Asn	His	Ile	Lys	Ser	Pro	Leu	Phe	Cys	Leu	Gly	Ile
		50				55					60				

<210> 5709

<211> 39

<212> PRT

<213> Homo sapiens

5016

<400> 5709

Ala Ala Phe Phe Leu Leu Arg Leu Ser Leu Phe Val Leu Leu Pro Lys
1 5 10 15
Arg Gln Leu Pro Glu Phe Gly Cys Leu Asn Tyr Asn Leu Cys Arg Asn
20 25 30
Ser Ser Val Asn Thr Phe Lys
35

<210> 5710

<211> 112

<212> PRT

<213> Homo sapiens

<400> 5710

Gln Leu Gln Leu Phe Cys Leu Gly Phe Gln Leu Phe Leu Val Arg Val
1 5 10 15
Cys Ser Leu Met Ile Trp Ile Tyr Phe Ala Phe Ile Phe Gln Arg Leu
20 25 30
His Leu Ile Pro Gly Lys Ser Ser Ala Arg Gln Val Ser Gly Phe Ser
35 40 45
Leu Leu Ser Phe Asn Pro Ser Asn Thr Ile Phe Val Lys Leu Asp Trp
50 55 60
Trp Cys Phe Ile Gln Leu Ile Tyr Ser Ala Tyr Leu Phe Glu Lys Arg
65 70 75 80
Leu Leu Glu Ile Asp Asp Val Phe Val Pro Val Ile Leu Lys Val Val
85 90 95
Gly Ala Arg Ile Glu Phe His Ser Gly Ile Gly Phe Gly Ser Gly Leu
100 105 110

<210> 5711

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5711

Trp Val Met Glu Tyr Asn Leu Glu Lys Lys Arg Asn Lys Arg Asp Cys

5017

1	5	10	15
Val Ser Pro Cys Cys Pro Gly Trp Ser Arg Thr Ser Glu Leu Lys Gln			
	20	25	30
Ser Thr Leu Leu Ser Leu Gln Lys Cys Trp Asp Tyr Arg His Glu Thr			
	35	40	45
Pro Ser Pro Ala Ile Arg Phe Leu Phe Tyr Ile Tyr Met Lys			
	50	55	60

<210> 5712

<211> 194

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (192)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5712

Pro Met Arg Arg Pro Arg Gly Glu Pro Gly Pro Arg Ala Pro Arg Pro			
1	5	10	15
Thr Glu Gly Ala Thr Cys Ala Gly Pro Gly Glu Ser Trp Ser Pro Ser			
	20	25	30
Pro Asn Ser Met Leu Arg Val Leu Leu Ser Ala Gln Thr Ser Pro Ala			
	35	40	45
Arg Leu Ser Gly Leu Leu Leu Ile Pro Pro Val Gln Pro Cys Cys Leu			
	50	55	60

5018

Gly Pro Ser Lys Trp Gly Asp Arg Pro Val Gly Gly Gly Pro Ser Ala
 65 70 75 80
 Gly Pro Val Gln Gly Leu Gln Arg Leu Leu Glu Gln Ala Lys Ser Pro
 85 90 95
 Gly Glu Leu Leu Xaa Trp Leu Gly Gln Asn Pro Ser Lys Val Arg Ala
 100 105 110
 Xaa His Tyr Ser Val Ala Leu Arg Arg Leu Gly Gln Leu Leu Gly Ser
 115 120 125
 Arg Pro Arg Pro Pro Pro Val Glu Gln Val Thr Leu Gln Asp Leu Ser
 130 135 140
 Gln Leu Ile Ile Arg Asn Cys Pro Ser Phe Asp Ile His Thr Ile His
 145 150 155 160
 Val Cys Leu His Leu Ala Val Leu Leu Gly Phe Pro Xaa Asp Gly Pro
 165 170 175
 Leu Val Cys Ala Leu Glu Gln Glu Pro Lys Leu Arg Leu Leu Arg Xaa
 180 185 190
 His Leu

<210> 5713

<211> 275

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5713

Arg Trp Ala Thr Tyr Gly Arg Thr Gly Gly Leu Pro Asn Val Gly Lys

5019

1	5	10	15
Ser Ser Thr Ile Asn Xaa Ile Met Gly Asn Lys Lys Val Ser Val Ser	20	25	30
Ala Thr Pro Gly His Thr Lys His Phe Gln Thr Leu Tyr Val Xaa Pro	35	40	45
Gly Leu Cys Leu Cys Asp Cys Pro Gly Leu Val Met Pro Ser Phe Val	50	55	60
Ser Thr Lys Ala Glu Met Thr Cys Ser Gly Ile Leu Pro Ile Asp Gln	65	70	75
Met Arg Asp His Val Pro Pro Val Ser Leu Val Cys Gln Asn Ile Pro	85	90	95
Arg His Val Leu Xaa Ala Thr Tyr Gly Ile Asn Ile Ile Thr Pro Arg	100	105	110
Glu Asp Glu Asp Pro His Arg Pro Pro Thr Ser Glu Glu Leu Leu Thr	115	120	125
Ala Tyr Gly Tyr Met Arg Gly Phe Met Thr Ala His Gly Gln Pro Asp	130	135	140
Gln Pro Arg Ser Ala Arg Tyr Ile Leu Lys Asp Tyr Val Ser Gly Lys	145	150	155
Leu Leu Tyr Cys His Pro Pro Pro Gly Arg Asp Pro Val Thr Phe Gln	165	170	175
His Gln His Gln Arg Leu Leu Glu Asn Lys Met Asn Ser Asp Glu Ile	180	185	190
Lys Met Gln Leu Gly Arg Asn Lys Lys Ala Lys Gln Ile Glu Asn Ile	195	200	205
Val Asp Lys Thr Phe Phe His Gln Glu Asn Val Arg Ala Leu Thr Lys	210	215	220
Gly Val Gln Ala Val Met Gly Tyr Lys Pro Gly Ser Gly Val Val Thr	225	230	235
Ala Ser Thr Ala Ser Ser Glu Asn Gly Ala Gly Lys Pro Trp Lys Lys	245	250	255
His Gly Asn Arg Asn Lys Lys Glu Lys Ser Arg Arg Leu Tyr Lys His	260	265	270
Leu Asp Met			

5020

275

<210> 5714

<211> 94

<212> PRT

<213> Homo sapiens

<400> 5714

His	Glu	Leu	Glu	His	Thr	Leu	Val	Met	Ala	Gly	Pro	Asn	Ser	Lys	Arg
1				5					10					15	

Gln	Thr	Gln	Gly	Val	His	Val	Pro	Arg	Met	Leu	Gln	Pro	Ala	Leu	Gly
			20					25					30		

Pro	Arg	Val	Ser	His	Glu	Asp	Trp	Pro	Pro	Leu	Cys	Thr	Gly	Ala	Arg
		35					40					45			

Gly	Gly	Gln	Val	Pro	Val	Leu	Ala	Arg	Leu	Leu	Ala	Ala	Val	Pro	Thr
	50					55					60				

Glu	Thr	Thr	Ala	Leu	Leu	Cys	Phe	Pro	Arg	Arg	Gly	Ala	Trp	Leu	Leu
65					70					75					80

Ala	Val	Arg	Ala	Gly	Leu	Phe	Gln	Lys	Val	Gly	Pro	Cys	Pro		
				85					90						

<210> 5715

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5715

Gly	Gln	Val	Ala	Ala	Leu	Ser	Pro	Arg	Val	Val	Pro	Gly	Arg	Leu	Arg
1				5					10					15	

Ser	Ser	Pro	Lys	Arg	Gly	Cys	Ser	Ser	Gly	Lys	Gln	Val	Asn	Ser	Trp
			20					25					30		

Tyr	Phe	Thr	Phe	Leu	Gly	Asn	Thr	Xaa	Asn	Glu	Asp	Leu	Gln	Leu	
			35				40					45			

5021

<210> 5716

<211> 71

<212> PRT

<213> Homo sapiens

<400> 5716

Pro Lys Thr Val Ser Lys Met His Ile Lys Ser Ile Ile Leu Glu Gly
1 5 10 15

Phe Lys Ser Tyr Ala Gln Arg Thr Glu Val Asn Gly Phe Asp Pro Leu
20 25 30

Phe Asn Ala Ile Thr Gly Leu Asn Gly Ser Gly Lys Ser Asn Ile Leu
35 40 45

Asp Ser Ile Cys Phe Leu Leu Gly Ile Ser Asn Leu Ser Gln Val Arg
50 55 60

Ala Ser Lys Phe Thr Arg Phe
65 70

<210> 5717

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5717

Pro Thr Tyr Gly Cys Trp Asp Asn Ser Pro Ser Arg Met Tyr Cys Cys
1 5 10 15

Ser Ala Gln Asp Ser Lys Met Asp Tyr Lys Arg Arg Phe Leu Leu Gly
20 25 30

Gly Ser Lys Gln Lys Val Gln Gln His Ser Asn Thr Arg Cys Leu Ser
35 40 45

Trp Ala Glu His
50

<210> 5718

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5022

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5718

Phe	Gly	Thr	Lys	Glu	Thr	Val	Asn	Lys	Asp	Ile	Cys	Glu	Lys	Gly	Thr
1				5					10					15	
Ile	Gln	Gln	Met	Ile	Gly	Ile	Phe	Lys	Asn	Ile	Ile	Ser	Lys	Pro	Asn
			20					25					30		
Glu	Lys	Glu	Glu	Ala	Ile	Val	Leu	Glu	Ile	Gln	Ser	Asp	Ile	Leu	Leu
			35				40					45			
Ile	Leu	Ser	Gly	Xaa	Cys	Glu	Asn	His	Ile	Gln	Arg	Lys	Glu	Ile	Phe
		50					55				60				
Gly	Thr	Glu	Gly	Val	Asp	Ile	Val	Leu	His	Val	Met	Lys	Thr	Asp	Pro
	65				70					75					80
Arg	Lys	Leu	Gln	Ser	Gly	Leu	Gly	Tyr	Asn	Val	Leu	Leu	Phe	Ser	Thr
				85					90					95	
Leu	Asp	Ser	Ile	Trp	Cys	Cys	Ile	Leu	Gly	Cys	Tyr	Pro	Ser	Glu	Asp
			100					105					110		
Tyr	Phe	Leu	Glu	Lys	Glu	Gly	Ile	Phe	Leu	Leu	Leu	Asp	Leu	Leu	Ala
		115					120					125			
Leu	Asn	Gln	Lys	Asn	Ser	Val	Ile								
		130				135									

<210> 5719

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5719

Lys	Ser	Leu	Gly	Glu	Lys	Lys	Ser	His	Thr	Val	Phe	Leu	Ala	Ile	Arg
1				5					10					15	
Ile	Met	Lys	Thr	Asn	Phe	Gly	Glu	Cys	Glu	Gln	Leu	Arg	Gln	Thr	Gly
			20					25					30		
His	Arg	Leu	Gln	Gly	Leu	Thr	Ser	Leu	Thr	Val	Thr	Asp	Asn	Leu	Gly
			35				40					45			
Met	Asp	Pro	Thr	Ala	Asp	Val	Ser	Lys	Gly	His	Arg	Gly	Glu	Leu	Val
			50				55				60				

5023

Thr Ser Asn
65

<210> 5720

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5720

Leu	Ile	Arg	Xaa	Gln	Ser	Trp	Ser	Ser	Thr	Ala	Val	Ala	Ala	Ala	Leu
1				5					10					15	
Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg	Gly	Leu	Leu
			20					25					30		
Gln	Lys	Gly	Tyr	Ile	Ile	Leu	Ser	Leu	Val	Ile	Gln	Arg	Tyr	Ser	
		35					40					45			

<210> 5721

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5721

Val	Leu	Leu	Asn	Trp	Ile	Ile	Gln	Tyr	Tyr	Gly	Tyr	Asn	Val	Ile	Gln
1				5						10				15	
Tyr	Tyr	Gly	Gly	Ile	Cys	Val	Ile	Ile	Xaa	Ile	Asn	Asn	Thr	Gly	Glu
			20					25					30		
Ile	Ser	Gly	Arg	Gln	Lys	Ser	Glu	Met	Ala	Leu	Thr	Glu	Phe	Lys	Ser
		35					40					45			
Arg	Cys	Trp	Glu	Gly	Ser	Thr	Pro	Leu	Gly	Gly	Cys	Gly	Gly	Gly	Ser
	50					55					60				
Ile	Ser	Leu	Pro	Ser	Pro	Thr	Tyr	Gly	Leu	Cys	Ile	Pro	Trp	Leu	Val

65 70 75 80

Ala Pro Ser Ser Ile Phe Lys Ala Ser Ser Val Val Leu Pro Ile Ser
 85 90 95

Leu Ile Phe Leu
 100

<400> 5722

Ala Arg Ala Glu Ile Gly Phe Leu Glu Gly Ser Ser Gly Lys Trp Pro
1 5 10 15

Asp Ser Ile Leu Arg Leu Cys Met Thr Ser Arg Tyr Tyr Pro Val Gly
20 25 30

Val Pro Trp Gly Ala Met Ala Ala Ile Arg Cys Arg Leu Gly Tyr Ile
35 40 45

Lys Trp Ala Glu Gly Thr Cys Leu Gly Arg Trp Gly Gly Leu Gln
50 55 60

```
<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 5723
Phe Met Ile Leu Xaa Tyr Lys Ser Tyr Glu Phe Leu Glu Leu Gln Lys
 1               5               10               15
Trp Pro Gly Val Val Ala His Thr Val Asn Pro Gly Thr Leu Gly Gly
      20               25               30
Gln Gly Arg Arg Thr Thr
      35
```

5025

<210> 5724

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5724

Asp	Glu	Glu	Val	Tyr	Ile	Trp	Val	Ser	Phe	Leu	His	Pro	Val	Glu	Ser
1				5					10					15	

Ser	Arg	Lys	Ser	Gly	Pro	Ile	Leu	Ser	Cys	Ser	Phe	Thr	Glu	Lys	Leu
			20					25					30		

Leu	Ser	Pro	Phe	Xaa	Phe	Leu	Leu	Asn	Glu	Leu	Trp	Ser	Pro	Asp	Leu
		35					40					45			

Leu	Cys	Lys	Gly	Gln	Pro	Asp	Pro	Pro	Phe	Met	His	Ser	Pro	Ser	Glu
	50					55					60				

Ser	Leu	Leu	Val	Ala	Trp	Leu	Glu	Xaa	Ser	Gly	Ile	Phe	Glu	Phe	Trp
65					70					75					80

Pro	Leu	Gln	Leu	Ser	Trp	Gly	Pro	Xaa	Gly	Gly	Leu	Pro	Pro	Leu	
				85					90					95	

<210> 5725

<211> 80

<212> PRT

<213> Homo sapiens

<400> 5725

His	Glu	Gly	Val	Ser	Thr	Ala	Pro	Ser	Gln	Lys	Phe	Tyr	Ile	Phe	Tyr
1				5						10				15	

5026

Arg Gly Lys Lys Thr Leu Tyr Thr Met Ala Arg Pro Phe Leu Ser Gln
 20 25 30
 Lys Ala Gly Pro Thr Glu Gln Phe Lys Leu Cys Ser Ser Arg Leu Lys
 35 40 45
 Ala Gly Phe Val Glu Glu Leu Gln Leu Leu Ser Arg Ala Asn Pro Val
 50 55 60
 Val Ile Gln Gly Glu Cys Lys Leu Ala Ser Leu Asp Arg Asp Gln Ser
 65 70 75 80

<210> 5726
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 5726
 Ile Gln Ile Asn Phe His Ala His Leu Tyr Leu Lys Asp Ser Asp Phe
 1 5 10 15
 Ser Leu Ser Gln Leu Arg Asn Ile Arg Leu Asn Pro Ala Val Leu Gln
 20 25 30
 Met Phe Leu Leu Arg Leu Lys His Gln Leu Ile Asn Arg Tyr Leu Phe
 35 40 45
 Ile Phe Asn
 50

<210> 5727
 <211> 38
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5727
 Pro Xaa Ser Ser Trp Asp Tyr Arg His Thr Pro Pro Cys Pro Ala His
 1 5 10 15

5027

Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Pro Gly Trp
 20 25 30

Leu His Leu Leu Thr Leu
 35

<210> 5728
 <211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (109)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5728
 Ser Lys Asp Gly Ala Xaa Cys Xaa Lys Ser Lys Asp Leu Leu Lys Gln
 1 5 10 15

Arg Tyr Leu Phe Ala Lys Ala Gly Tyr Pro Leu Arg Arg Ser Gln Ser
 20 25 30

Leu Pro Thr Thr Leu Leu Ser Pro Val Arg Val Val Ser Ser Val Asn
 35 40 45

Val Arg Leu Ser Pro Gly Lys Glu Thr Arg Cys Ser Pro Pro Ser Phe
 50 55 60

Thr Tyr Lys Tyr Thr Pro Glu Glu Glu Gln Glu Leu Glu Lys Arg Val
 65 70 75 80

Met Glu His Asp Gly Gln Ser Leu Val Lys Ser Thr Ile Phe Ile Ser
 85 90 95

Pro Ser Ser Val Lys Lys Glu Glu Ala Pro Gln Ser Xaa Ala Pro Arg
 100 105 110

5028

<210> 5729

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5729

Ile	Leu	Phe	Ala	Pro	Pro	Arg	Phe	Ala	Pro	Glu	Arg	Gln	Ser	Ser	Ser
1				5					10					15	

Arg	Gly	Pro	Leu	Arg	His	Arg	Tyr	Ser	Ser	Gln	Ile	Xaa	Thr	His	Phe
			20					25					30		

Thr	Ala	Thr	Pro	Gly	Ile	Leu	Pro	Pro	Leu	Arg	Asp	Ser	Ser	Leu	Pro
			35				40					45			

Val	Ser	Asp	Ala	Val	Pro	Arg	Leu	Ser	Pro	Gly	Ile	Ser	His	Leu	Thr
	50					55					60				

<210> 5730

<211> 63

<212> PRT

<213> Homo sapiens

<400> 5730

Ser	Leu	Ser	Ala	Pro	Glu	Leu	Lys	Ser	Leu	Ala	Lys	Thr	Phe	His	Leu
1				5					10					15	

Val	Asn	Pro	Asn	Gly	Gln	Lys	Gln	Gln	Leu	Val	Asp	Ala	Phe	Leu	Lys
			20					25					30		

Leu	Ala	Lys	Gln	Arg	Ser	Val	Cys	Thr	Trp	Gly	Lys	Asn	Lys	Pro	Gly
			35				40					45			

Ile	Gly	Ala	Val	Ile	Leu	Lys	Arg	Phe	Cys	Trp	Leu	Leu	Leu	Gln	
	50					55					60				

5029

<210> 5731

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5731

Glu	Met	Ser	His	Lys	Glu	Arg	His	Phe	Glu	Leu	Leu	Leu	Lys	Ser	Cys
1				5					10					15	

Lys	Val	Ser	Tyr	Pro	Gly	Thr	Val	Phe	Leu	Asn	Gly	Asn	Val	Met	Ala
			20					25					30		

Glu	Ser	Cys	Ser	Ile	Thr	Thr	Xaa	Gly	Leu	Val	His	Gln	Val	Pro	Thr
		35					40					45			

His	Pro	Leu	Gln	Ala	Leu	Gly	Ser	Gly	Met	Cys	Pro	Ser	Trp	Lys	Xaa
		50				55					60				

Gln	Val	Leu	Trp	Leu	Cys	Trp	Phe	Trp	Leu	Ser	Phe	Ser	Val	Thr	Phe
65					70					75					80

Gln	Tyr	Leu	Ser	Pro	Ser	Arg	Tyr	Cys	Lys	Pro	Leu	Ser	Asn
				85					90				

<210> 5732

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5732

Gly	Xaa	Gly	Phe	Trp	Pro	Ala	Ser	Val	Ala	Arg	Val	Leu	Thr	Gly	Val
1				5					10					15	

[illegible]

```
<210> 5733
<211> 85
<212> PRT
<213> Homo sapiens
```

```

<400> 5733
His Gln Trp Arg Gly Ala Leu His Ile Leu Cys Gln Gln Gln His Ser
 1          5          10          15
His Thr Arg Trp Phe Trp Ala Leu Cys Arg Leu Val Leu Val Gly Asp
          20          25          30
Thr Gln Gln His Pro Cys Trp Thr Gly Leu Ile Val Arg Ser Leu Arg
          35          40          45
Pro Thr Leu Gln Ser Glu Met Leu Leu Gly Gly Gly Lys Glu Asn Thr
          50          55          60
Phe Phe Pro Pro Cys Gly Asn Glu Glu Arg Gly Lys Trp Ile Gly Lys
 65          70          75          80
Pro Lys Cys Glu Ser
          85

```

```
<210> 5734
<211> 123
<212> PRT
<213> Homo sapiens
```

```

<400> 5734
Phe Ser Leu Thr Leu Phe Pro Pro Pro Thr Cys His Gln Ala Ser Pro
 1             5             10             15
Lys Pro Thr Ala Met Gly Pro Ser Gly Pro Phe Arg Asp Trp Ser Glu
          20             25             30

```

5031

Cys Ile Gly Gly Gln Asp Pro Asp His Ser Leu
115 120

u Xaa Gly Arg Ser Ser Leu Ser Lys Val
35 40

5032

<210> 5736

<211> 34

<212> PRT

<213> Homo sapiens

<400> 5736

Tyr Pro Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser
1 5 10 15

Gly Ile Pro Gly Ser Thr His Ala Ser Gly Ile Leu Gly Leu Arg Phe
20 25 30

Phe Met

<210> 5737

<211> 202

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5737

Tyr Ser Arg Pro Gln Ala His Ser Ser Ala Ser Gly Gly Ile Arg Arg
1 5 10 15

Ser Ser Ser Met Ser Tyr Val Asp Gly Phe Ile Gly Thr Trp Pro Lys
20 25 30

Glu Lys Arg Ser Ser Val His Gly Val Ser Phe Asp Ile Ser Phe Asp
35 40 45

Lys Glu Asp Ser Val Gln Arg Ser Thr Pro Asn Arg Gly Ile Thr Arg
50 55 60

Ser Ile Ser Asn Glu Gly Leu Thr Leu Asn Asn Ser His Val Ser Lys
65 70 75 80

His Ile Arg Lys Asn Leu Ser Phe Lys Pro Ile Asn Gly Glu Glu Glu

5033

	85		90		95
Ala Glu Ser Ile Glu Glu Glu Leu Asn Ile Asp Ser His Ser Asp Leu					
	100		105		110
Lys Ser Cys Val Pro Leu Asn Thr Asn Glu Leu Asn Ser Asn Glu Asn					
	115		120		125
Ile His Tyr Lys Leu Pro Asn Gly Ala Leu Gln Asn Arg Ile Leu Leu					
	130		135		140
Asp Glu Phe Gly Asn Gln Ile Glu Thr Pro Ser Ile Glu Glu Ala Leu					
	145		150		155
Gln Ile Ile His Asp Thr Xaa Lys Ser Pro His Thr Pro Gln Pro Asp					
	165		170		175
Gln Ile Ala Asn Gly Phe Phe Leu His Ser Gln Gly Met Ser Ile Leu					
	180		185		190
Asn Ser Xaa Ile Lys Leu Asn Gln Ser Ser					
	195		200		

<210> 5738
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 5738
 Gly Arg Ile Ser His Val Gly Ser Arg Thr Glu Gly Ser Arg Leu Pro
 1 5 10 15
 Ala Gln Cys Ser Leu Cys Ser Thr Met Leu Pro Leu Val Gly Glu Thr
 20 25 30
 Gly Gln Lys
 35

<210> 5739
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 5739
 Phe Trp Gly Lys Lys Ala Val Ser Arg Gly Phe Ser Lys Gly Asn Thr
 1 5 10 15

5034

Gln Met Ala Lys Lys His Met Gln Arg Cys Ser Met Phe Phe Val Ile
 20 25 30

Arg Lys Met
 35

<210> 5740
 <211> 220
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5740
 Glu Lys Thr Ile Leu Thr Gly Glu Cys Cys Tyr Leu Asn Pro Leu Leu
 1 5 10 15

Arg Arg Ile Ile Arg Phe Thr Gly Val Phe Ala Phe Gly Leu Phe Ala
 20 25 30

Thr Asp Ile Phe Val Asn Ala Gly Gln Val Val Thr Gly His Leu Thr
 35 40 45

Pro Tyr Phe Leu Thr Val Cys Lys Pro Asn Tyr Thr Ser Ala Asp Cys
 50 55 60

Xaa Ala His His Gln Phe Ile Asn Asn Gly Asn Ile Cys Thr Gly Asp
 65 70 75 80

Arg Glu Val Ile Glu Lys Ala Arg Arg Ser Phe Pro Ser Lys His Xaa
 85 90 95

Ala Leu Ser Ile Tyr Ser Ala Leu Tyr Ala Thr Met Tyr Ile Thr Ser
 100 105 110

Thr Ile Lys Thr Xaa Ser Ser Arg Leu Ala Lys Pro Val Leu Cys Leu

5035

115		120		125
Gly Thr Leu Cys Thr Ala Phe Leu Thr Gly Leu Asn Arg Val Ser Glu				
130		135		140
Tyr Arg Asn His Cys Ser Asp Val Ile Ala Gly Phe Ile Leu Gly Thr				
145		150		155
				160
Ala Val Ala Leu Phe Leu Gly Met Cys Val Val His Asn Phe Lys Gly				
		165		170
				175
Thr Gln Gly Ser Pro Ser Lys Pro Lys Pro Glu Asp Pro Arg Gly Val				
		180		185
				190
Pro Leu Met Ala Phe Pro Arg Ile Glu Ser Pro Leu Glu Thr Leu Ser				
		195		200
				205
Ala Gln Asn His Ser Ala Ser Met Thr Glu Val Thr				
		210		215
				220

<210> 5741

<211> 38

<212> PRT

<213> Homo sapiens

<400> 5741

Lys Thr Phe Arg Leu Phe Leu Ala Ile Ser Leu Thr Phe Ala Thr Ile
1 5 10 15

Val Thr Lys His Ser Leu Tyr Met His Pro Pro Asn Val Ser Cys Leu
20 25 30

Phe Ile Gly Lys Leu Tyr
35

<210> 5742

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5036

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5742

Trp	Gln	Gly	His	Trp	Pro	Gly	Pro	His	Leu	Pro	Ser	Ser	Xaa	Leu	Pro
1				5					10					15	

Lys	Arg	Lys	Leu	Pro	Trp	Xaa	Ser	Arg	Pro	Leu	Asn	Ala	Asn	Ser	Trp
			20					25					30		

Leu	Pro	Val	Ser	Gly	Trp	Val	Asp	Leu	Thr	Trp	Pro	Leu	Leu	Ala	Gly
		35					40					45			

Pro	Cys	Ser	Phe	Leu	Thr	Cys	Arg	Xaa	Glu	Gln
	50					55				

<210> 5743

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5743

Xaa	Leu	Val	Ala	Gly	Asp	Ile	Val	Leu	Asp	Lys	Leu	Gly	Glu	Arg	Leu
1				5					10					15	

Ala	Ile	Leu	Leu	Lys	Val	Arg	Asp	Met	Val	Ser	Ser	His	Val	Glu	Arg
			20					25					30		

Val	Phe	Gln	Ile	Tyr	Glu	Gln	His	Ala	Asp	Thr	Val	Gly	Ile	Asp	Ala
		35					40					45			

Val	Leu	Gln	Pro	Ser	Ala	Val	Ser	Pro	Ser	Val	Ala	Asp	Met	Leu	Glu
	50					55					60				

Trp	Leu	Gln	Asp	Ile	Glu	Arg	His	Tyr	Arg	Lys	Ser	Tyr	Leu	Lys	Arg
65					70					75					80

Lys	Tyr	Leu	Leu	Ser	Ser	Ile	Gln	Trp	Gly	Asp	Leu	Ala	Asn	Ile	Gln
				85					90					95	

5037

Ala Leu Pro Lys Ala Trp Asp Arg Ile Ser Lys Asp Glu His Gln Asp
 100 105 110

Leu Val Gln Asp Ile Leu Leu Asn Val Ser
 115 120

<210> 5744

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5744

Thr Xaa Asn Phe His Xaa Arg Xaa Glu Val Ile Asn Ser Gly His Gln
 1 5 10 15

Arg Ile Leu Ala Ser Ala Leu Gly Leu Val Met Tyr Gln Val Trp Tyr
 20 25 30

Tyr Phe Leu Phe Val Leu Ile Arg Phe Leu Pro Ser Ser Ser Ile Trp
 35 40 45

Glu Ile Lys Thr Gly Leu Leu Ala Trp Leu Val Thr Glu Arg Gln Ala
 50 55 60

His Ser
 65

<210> 5745

<211> 59

<212> PRT

<213> Homo sapiens

5038

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5745

Ser	Phe	Pro	Pro	Arg	Asn	Ser	Pro	Arg	Leu	Lys	Thr	Xaa	Leu	His	Tyr
1				5					10					15	

Gln	Val	Met	Arg	Cys	Glu	Gly	Gly	Ser	Leu	Lys	Val	Glu	Asn	Leu	Gly
			20					25					30		

Val	Glu	Ala	Thr	Val	Pro	Ser	Trp	Xaa	Leu	Ser	Phe	Leu	Ile	Cys	Glu
		35					40					45			

Met	Arg	Val	Asn	Val	Lys	Leu	Leu	Cys	Lys	Met
		50				55				

<210> 5746

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5746

Lys	Ala	Thr	Leu	Leu	Ser	Cys	Glu	Ala	His	His	Leu	Ser	Leu	Ala	Leu
1				5					10					15	

Gly	Ser	Ser	Cys	Arg	Arg	Ser	Leu	Gly	Pro	Leu	Met	His	Pro	Phe	Gln
			20					25					30		

Gln	Thr	Phe	His	Phe	Gly	Val	Arg	Xaa	Asp	Phe	Leu	Ala	Leu	Gln	Gly
		35					40					45			

5039

Ala Pro Ala Ser Ser Cys Ile Pro Cys Pro Gly Pro Gly Ile Ser Pro
 50 55 60

Phe Ser Lys Glu Pro Arg Val Leu Leu Leu Ala Ser Leu Lys Arg Val
 65 70 75 80

Arg Pro Gly Cys Gln Ala Gly Ser Pro Arg Ser Phe Tyr Trp Glu Val
 85 90 95

Leu Glu Ser Glu Ala Trp Val Pro Gly Gly Cys Gln Val Gly Xaa Val
 100 105 110

Leu Leu Gly Cys Cys
 115

<210> 5747
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 5747
 Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Gly Ser Thr Ala Val Thr
 1 5 10 15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
 20 25 30

Gly Leu Val Arg Val Phe Phe Phe Phe Phe Phe Lys Thr Asn Thr Phe
 35 40 45

Ile Ala His Leu
 50

<210> 5748
 <211> 270
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (266)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5748
 Thr Leu Glu Gln Glu Gln Glu Ala Leu Val Asn Arg Leu Trp Lys Arg
 1 5 10 15

5040

Met	Asp	Lys	Leu	Glu	Ala	Glu	Lys	Arg	Ile	Leu	Gln	Glu	Lys	Leu	Asp	20	25	30	
Gln	Pro	Val	Ser	Ala	Pro	Pro	Ser	Pro	Arg	Asp	Ile	Ser	Met	Glu	Ile	35	40	45	
Asp	Ser	Pro	Glu	Asn	Met	Met	Arg	His	Ile	Arg	Phe	Leu	Lys	Asn	Glu	50	55	60	
Val	Glu	Arg	Leu	Lys	Lys	Gln	Leu	Arg	Ala	Ala	Gln	Leu	Gln	His	Ser	65	70	75	80
Glu	Lys	Met	Ala	Gln	Tyr	Leu	Glu	Glu	Glu	Arg	His	Met	Arg	Glu	Glu	85	90	95	
Asn	Leu	Arg	Leu	Gln	Arg	Lys	Leu	Gln	Arg	Glu	Met	Glu	Arg	Arg	Glu	100	105	110	
Ala	Leu	Cys	Arg	Gln	Leu	Ser	Glu	Ser	Glu	Ser	Ser	Leu	Glu	Met	Asp	115	120	125	
Asp	Glu	Arg	Tyr	Phe	Asn	Glu	Met	Ser	Ala	Gln	Gly	Leu	Arg	Pro	Arg	130	135	140	
Thr	Val	Ser	Ser	Pro	Ile	Pro	Tyr	Thr	Pro	Ser	Pro	Ser	Ser	Ser	Arg	145	150	155	160
Pro	Ile	Ser	Pro	Gly	Leu	Ser	Tyr	Ala	Ser	His	Thr	Val	Gly	Phe	Thr	165	170	175	
Pro	Pro	Thr	Ser	Leu	Thr	Arg	Ala	Gly	Met	Ser	Tyr	Tyr	Asn	Ser	Pro	180	185	190	
Gly	Leu	His	Val	Gln	His	Met	Gly	Thr	Ser	His	Gly	Ile	Thr	Arg	Pro	195	200	205	
Ser	Pro	Arg	Arg	Ser	Asn	Ser	Pro	Asp	Lys	Phe	Lys	Arg	Pro	Thr	Pro	210	215	220	
Pro	Pro	Ser	Pro	Asn	Thr	Gln	Thr	Pro	Val	Gln	Pro	Pro	Pro	Pro	Pro	225	230	235	240
Pro	Pro	Pro	Pro	Met	Gln	Pro	Thr	Val	Pro	Ser	Ala	Ala	Thr	Ser	Gln	245	250	255	
Pro	Thr	Pro	Ser	Gln	His	Ser	Ala	His	Xaa	Ser	Ser	Gln	Pro			260	265	270	

5041

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5749

Val	Ile	Gln	Val	Tyr	Thr	Ser	Val	Lys	Ile	Gln	Arg	Met	Tyr	Thr	Gln
1				5					10					15	

Asp	Leu	Cys	Ile	Ser	Leu	Tyr	Val	Asn	Val	Thr	Leu	Lys	Cys	Cys	Lys
			20					25					30		

Gln	Ile	Leu	Asn	Lys	Tyr	Thr	His	Ala	Lys	Val	Phe	Lys	Arg	Lys	Tyr
		35					40					45			

Trp	Cys	Leu	Gln	Asn	Lys	Asn	Phe	Phe	Ser	Ile	Phe	Cys	Gly	Lys	Ile
	50					55					60				

Tyr	Ile	Ile
	65	

<210> 5750

<211> 152

<212> PRT

<213> Homo sapiens

<400> 5750

Pro	Arg	Gly	Ser	Val	Gly	Val	Ser	Ser	Glu	Leu	His	Gln	Phe	Pro	Gly
1				5					10					15	

Tyr	Leu	Gly	Pro	Trp	Ile	Thr	Leu	Arg	Ser	Ala	Thr	Cys	Gln	Leu	Ile
			20					25					30		

Ser	Lys	Leu	Leu	Leu	Ala	Gly	Leu	Arg	Leu	Ser	Arg	Glu	His	Leu	Gly
		35					40					45			

Glu	Pro	Cys	Ala	Ala	Gly	Trp	Thr	Pro	Ala	His	Leu	Ala	Asp	Tyr	Ser
	50					55					60				

Cys	Phe	Cys	Ser	Pro	Val	Cys	Pro	Gln	Glu	Val	Arg	Ala	Cys	Leu	Leu
65					70					75					80

Phe	Leu	His	Asp	His	Gly	Arg	Arg	Gly	Thr	Asn	Met	Arg	Val	Leu	Ala
				85					90					95	

Ser	Pro	Gln	Trp	Trp	Leu	Pro	Arg	Ala	Gly	Glu	Thr	Leu	Gly	Glu	Gly
			100					105					110		

Leu	Gly	Gln	Gly	Pro	Leu	Ser	Leu	Ala	Ala	Thr	Ala	Trp	Val	Asn	Cys
		115					120					125			

5042

Leu Ala Arg Leu Ala Ala Arg Ala Gln Lys Ala Glu Ala Leu Pro Ala
 130 135 140

Phe Ser Ser His Pro Ala Pro Met
 145 150

<210> 5751

<211> 98

<212> PRT

<213> Homo sapiens

<400> 5751

Arg Val Ala Val Glu Asp Val Ser Met Val Lys Gln Lys Asn Thr Thr
 1 5 10 15

Phe Leu Trp Lys Glu Ile Leu Lys Gln Gln Ser Gln Ile Val Lys Met
 20 25 30

Leu Arg Ile Ser Val Pro Pro Leu Thr Ser Val Ser Val Lys Pro Gln
 35 40 45

Leu Gly Cys Thr Glu Asp Tyr Leu Leu Ser Lys Leu Pro Ser Asp Gly
 50 55 60

Lys Glu Val Pro Phe Val Val Arg Lys Phe Lys Leu Ser Tyr Ile Gln
 65 70 75 80

Pro Arg Thr Gln Glu Thr Pro Ser His Leu Glu Glu Leu Glu Gly Ser
 85 90 95

Ala Gly

<210> 5752

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5752

Asp Arg Lys Arg Asp Leu Thr Ser Pro Trp Arg Leu Ser Val Ser Ala
 1 5 10 15

5043

Glu Ala Leu Gly Leu Ala Leu Gly Leu Cys Ile Pro Glu Ser Cys Cys
 20 25 30
 Met Pro Gly Ile Gly Phe Gln Ala Cys Leu Ser Phe Ser Ser Leu Pro
 35 40 45
 Gly Ile Ala Met Arg Trp Glu Gly Glu Pro Ser Ser Pro Ala Glu Ile
 50 55 60
 Pro Ala Ala Trp Gln Pro Ala Gly Gly Ser Trp Ile Pro Arg Gly Asp
 65 70 75 80
 Xaa Thr Asp Ala Leu Trp Phe His Val Ile Trp Ile
 85 90

<210> 5753

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5753

Pro Arg Arg His Arg Val Pro Gly Ser Gly Phe Ala Phe Pro Lys Asn
 1 5 10 15

5044

Glu Asn Lys Leu Leu Pro Lys Glu Leu Val Phe Pro Leu Leu Phe Ser
 20 25 30
 Asn Cys Glu Gly Pro Arg Gly Val Glu His Gly Ala Pro His Lys Pro
 35 40 45
 Xaa Gly Trp Cys Pro Gly Tyr Gln Gly His Ala Xaa Gly Leu Asp Asp
 50 55 60
 Leu Ser Leu Gln Gly Ala Leu Val Val Xaa Asn Trp Leu Lys Val Thr
 65 70 75 80
 Xaa Glu Gly Xaa Cys Gly Asn Trp
 85

<210> 5754

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5754

Lys Ile Phe Ser Phe Ala Val Pro Asp Pro Leu Met Pro Asp Pro Xaa
 1 5 10 15

Lys Gln Pro Lys Asn Gln Leu Asn Pro Ile Gly Ser
 20 25

<210> 5755

<211> 75

<212> PRT

<213> Homo sapiens

<400> 5755

Arg Met Asn Ile Cys Val Ser Val Cys Val Ser Glu Leu Cys Asp Phe
 1 5 10 15

Ile Arg Gly Ile Cys Gln Phe Ser His Cys Gly Ser Phe Ser Asp Phe
 20 25 30

Ala Cys Ser Ser Ser Lys Glu Ala Arg Ser Phe Ala Asp Phe Thr Ile
 35 40 45

5045

Pro Gln Thr Cys Lys Phe Leu Thr Ser Ser Lys Leu Ala Leu Ala Leu
 50 55 60

Ser Ser Thr Phe Pro Phe Lys Ser Asn Leu Cys
 65 70 75

<210> 5756
 <211> 540
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (320)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (508)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5756
 Thr Met Asp Glu Glu Lys Asp Asp Gly Glu Ala Lys Glu Ile Ser
 1 5 10 15

Thr Pro Thr His Trp Ser Lys Leu Asp Pro Lys Thr Met Lys Val Asn
 20 25 30

Asp Leu Arg Lys Glu Leu Glu Ser Arg Ala Leu Ser Ser Lys Gly Leu
 35 40 45

Lys Ser Gln Leu Ile Ala Arg Leu Thr Lys Gln Leu Lys Val Glu Glu
 50 55 60

Gln Lys Glu Glu Gln Lys Glu Leu Glu Lys Ser Glu Lys Glu Glu Asp
 65 70 75 80

Glu Asp Asp Asp Arg Lys Ser Glu Asp Asp Lys Glu Glu Glu Glu Arg
 85 90 95

Lys Arg Gln Glu Glu Ile Glu Arg Gln Arg Arg Glu Arg Arg Tyr Ile
 100 105 110

Leu Pro Asp Glu Pro Ala Ile Ile Val His Pro Asn Trp Ala Ala Lys
 115 120 125

Ser Gly Lys Phe Asp Cys Ser Ile Met Ser Leu Ser Val Leu Leu Asp
 130 135 140

5046

Tyr	Arg	Leu	Glu	Asp	Asn	Lys	Glu	His	Ser	Phe	Glu	Val	Ser	Leu	Phe	145	150	155	160
Ala	Glu	Leu	Phe	Asn	Glu	Met	Leu	Gln	Arg	Asp	Phe	Gly	Val	Arg	Ile	165	170	175	
Tyr	Lys	Ser	Leu	Leu	Ser	Leu	Pro	Glu	Lys	Glu	Asp	Lys	Lys	Glu	Lys	180	185	190	
Asp	Lys	Lys	Ser	Lys	Lys	Asp	Glu	Arg	Lys	Asp	Lys	Lys	Glu	Glu	Arg	195	200	205	
Asp	Asp	Glu	Thr	Asp	Glu	Pro	Lys	Pro	Lys	Arg	Arg	Lys	Ser	Gly	Asp	210	215	220	
Asp	Lys	Asp	Lys	Lys	Glu	Asp	Arg	Asp	Glu	Arg	Lys	Lys	Glu	Asp	Lys	225	230	235	240
Arg	Lys	Asp	Asp	Ser	Lys	Asp	Asp	Asp	Glu	Thr	Glu	Glu	Asp	Asn	Asn	245	250	255	
Gln	Asp	Glu	Tyr	Asp	Pro	Met	Glu	Ala	Glu	Glu	Ala	Glu	Asp	Glu	Glu	260	265	270	
Asp	Asp	Arg	Asp	Glu	Glu	Glu	Met	Thr	Lys	Arg	Asp	Asp	Lys	Arg	Asp	275	280	285	
Ile	Asn	Arg	Tyr	Cys	Lys	Glu	Arg	Pro	Ser	Lys	Asp	Lys	Glu	Lys	Glu	290	295	300	
Lys	Thr	Gln	Met	Ile	Thr	Ile	Asn	Arg	Asp	Leu	Leu	Met	Ala	Phe	Xaa	305	310	315	320
Tyr	Phe	Asp	Gln	Ser	His	Cys	Gly	Tyr	Leu	Leu	Glu	Lys	Asp	Leu	Glu	325	330	335	
Glu	Ile	Leu	Tyr	Thr	Leu	Gly	Leu	His	Leu	Ser	Arg	Ala	Gln	Val	Lys	340	345	350	
Lys	Leu	Leu	Asn	Lys	Val	Val	Leu	Arg	Glu	Ser	Cys	Phe	Tyr	Arg	Lys	355	360	365	
Leu	Thr	Asp	Thr	Ser	Lys	Asp	Glu	Glu	Asn	His	Glu	Glu	Ser	Glu	Ser	370	375	380	
Leu	Gln	Glu	Asp	Met	Leu	Gly	Asn	Arg	Leu	Leu	Leu	Pro	Thr	Pro	Thr	385	390	395	400
Val	Lys	Gln	Glu	Ser	Lys	Asp	Val	Glu	Glu	Asn	Val	Gly	Leu	Ile	Val	405	410	415	

5047

Tyr Asn Gly Ala Met Val Asp Val Gly Ser Leu Leu Gln Lys Leu Glu
 420 425 430
 Lys Ser Glu Lys Val Arg Ala Glu Val Glu Gln Lys Leu Gln Leu Leu
 435 440 445
 Glu Glu Lys Thr Asp Glu Asp Glu Lys Thr Ile Leu Asn Leu Glu Asn
 450 455 460
 Ser Asn Lys Ser Leu Ser Gly Glu Leu Arg Glu Val Lys Lys Asp Leu
 465 470 475 480
 Ser Gln Leu Gln Glu Asn Leu Lys Ile Ser Glu Asn Met Asn Leu Gln
 485 490 495
 Phe Glu Asn Gln Met Asn Lys Thr Ile Arg Asn Xaa Ser Thr Val Met
 500 505 510
 Asp Glu Ile His Thr Val Leu Lys Lys Asp Asn Val Lys Asn Glu Asp
 515 520 525
 Lys Asp Gln Lys Ser Lys Glu Asn Gly Ala Ser Val
 530 535 540

<210> 5757

<211> 231

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (201)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5757

Glu Lys Gln Ala Glu Ile Leu Glu Tyr Ala Tyr His Gly Gln Ile Ala
 1 5 10 15

5048

Ile Val Ala Pro Glu Ala Leu Leu Ala Gly His Asn Tyr Thr Leu Lys
 20 25 30
 Ile Glu Tyr Ser Ala Asn Ile Ser Ser Ser Tyr Tyr Gly Phe Tyr Gly
 35 40 45
 Phe Ser Tyr Thr Asp Glu Ser Asn Glu Lys Lys Tyr Phe Ala Ala Thr
 50 55 60
 Gln Phe Glu Pro Leu Ala Ala Arg Ser Ala Phe Pro Cys Phe Asp Glu
 65 70 75 80
 Pro Ala Phe Lys Ala Thr Phe Ile Ile Lys Ile Ile Arg Asp Glu Gln
 85 90 95
 Tyr Thr Ala Leu Ser Asn Met Pro Lys Lys Ser Ser Val Val Leu Asp
 100 105 110
 Asp Gly Leu Val Gln Asp Glu Phe Ser Glu Ser Val Lys Met Ser Thr
 115 120 125
 Tyr Leu Val Ala Phe Ile Val Gly Glu Met Lys Asn Leu Ser Gln Asp
 130 135 140
 Val Asn Gly Thr Leu Val Ser Ile Tyr Ala Val Pro Glu Lys Ile Gly
 145 150 155 160
 Gln Val His Tyr Ala Leu Glu Thr Thr Val Lys Leu Leu Glu Phe Phe
 165 170 175
 Gln Asn Tyr Phe Glu Ile Gln Tyr Pro Leu Lys Lys Leu Asp Leu Val
 180 185 190
 Ala Ile Pro Asp Phe Glu Ala Arg Xaa Asn Gly Lys Leu Gly Phe Cys
 195 200 205
 Ser Pro Ser Glu Lys Xaa Thr Leu Leu Phe Asp Xaa Tyr Thr Ser Ser
 210 215 220
 Met Ala Asp Lys Lys Ala Gly
 225 230

<210> 5758

<211> 294

<212> PRT

<213> Homo sapiens

<400> 5758

Asn Met Thr Glu Asp Ser Gln Arg Asn Phe Arg Ser Val Tyr Tyr Glu

5049

1	5	10	15
Lys Val Gly Phe Arg Gly Val Glu Glu Lys Lys Ser Leu Glu Ile Leu	20	25	30
Leu Lys Asp Asp Arg Leu Asp Thr Glu Lys Leu Cys Thr Phe Ser Gln	35	40	45
Arg Phe Pro Leu Pro Ser Met Tyr Arg Ala Leu Val Trp Lys Val Leu	50	55	60
Leu Gly Ile Leu Pro Pro His His Glu Ser His Ala Lys Val Met Met	65	70	75
Tyr Arg Lys Glu Gln Tyr Leu Asp Val Leu His Ala Leu Lys Val Val	85	90	95
Arg Phe Val Ser Asp Ala Thr Pro Gln Ala Glu Val Tyr Leu Arg Met	100	105	110
Tyr Gln Leu Glu Ser Gly Lys Leu Pro Arg Ser Pro Ser Phe Pro Leu	115	120	125
Glu Pro Asp Asp Glu Val Phe Leu Ala Ile Ala Lys Ala Met Glu Glu	130	135	140
Met Val Glu Asp Ser Val Asp Cys Tyr Trp Ile Thr Arg Arg Phe Val	145	150	155
Asn Gln Leu Asn Thr Lys Tyr Arg Asp Ser Leu Pro Gln Leu Pro Lys	165	170	175
Ala Phe Glu Gln Tyr Leu Asn Leu Glu Asp Gly Arg Leu Leu Thr His	180	185	190
Leu Arg Met Cys Ser Ala Ala Pro Lys Leu Pro Tyr Asp Leu Trp Phe	195	200	205
Lys Arg Cys Phe Ala Gly Cys Leu Pro Glu Ser Ser Leu Gln Arg Val	210	215	220
Trp Asp Lys Val Val Ser Gly Ser Cys Lys Ile Leu Val Phe Val Ala	225	230	235
Val Glu Ile Leu Leu Thr Phe Lys Ile Lys Val Met Ala Leu Asn Ser	245	250	255
Ala Glu Lys Ile Thr Lys Phe Leu Glu Asn Ile Pro Gln Asp Ser Ser	260	265	270
Asp Ala Ile Val Ser Lys Ala Ile Asp Leu Trp His Lys His Cys Gly			

5050

275 280 285
 Thr Pro Val His Ser Ser
 290

<210> 5759
 <211> 431
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5759
 Xaa Phe Gly Ala Xaa Gly Thr Val Glu Ser Glu Thr Ser Pro Asp Arg
 1 5 10 15
 Asp Lys Lys Lys Glu Gln Ser Glu Val Ser Val Ser Pro Arg Ala Ser
 20 25 30
 Lys His His Tyr Ser Arg Ser Arg Ser Arg Ser Arg Glu Arg Lys Arg
 35 40 45
 Lys Ser Asp Asn Glu Gly Arg Lys His Arg Ser Arg Ser Arg Ser Lys
 50 55 60
 Glu Gly Arg Arg His Glu Ser Lys Asp Lys Ser Ser Lys Lys His Lys
 65 70 75 80
 Ser Glu Glu His Asn Asp Lys Glu His Ser Ser Asp Lys Gly Arg Glu
 85 90 95
 Arg Leu Asn Ser Ser Glu Asn Gly Glu Asp Arg His Lys Arg Lys Glu
 100 105 110
 Arg Lys Ser Ser Arg Gly Arg Ser His Ser Arg Ser Arg Ser Arg Glu
 115 120 125
 Arg Arg His Arg Ser Arg Ser Arg Glu Arg Lys Lys Ser Arg Ser Arg
 130 135 140
 Ser Arg Glu Arg Lys Lys Ser Arg Ser Arg Ser Arg Glu Arg Lys Lys

5051

145		150		155		160
Ser Arg Ser Arg Ser Arg Glu Arg Lys Arg Arg Ile Arg Ser Arg Ser						
	165		170		175	
Arg Ser Arg Ser Arg His Arg His Arg Thr Arg Ser Arg Ser Arg Thr						
	180		185		190	
Arg Ser Arg Ser Arg Asp Arg Lys Lys Arg Ile Glu Lys Pro Arg Arg						
	195		200		205	
Phe Ser Arg Ser Leu Ser Arg Thr Pro Ser Pro Pro Pro Phe Arg Gly						
	210		215		220	
Arg Asn Thr Ala Met Asp Ala Gln Glu Ala Leu Ala Arg Arg Leu Glu						
	225		230		235	240
Arg Ala Lys Lys Leu Gln Glu Gln Arg Glu Lys Glu Met Val Glu Lys						
	245		250		255	
Gln Lys Gln Gln Glu Ile Ala Ala Ala Ala Ala Ala Thr Gly Gly Ser						
	260		265		270	
Val Leu Asn Val Ala Ala Leu Leu Ala Ser Gly Thr Gln Val Thr Pro						
	275		280		285	
Gln Ile Ala Met Ala Ala Gln Met Ala Ala Leu Gln Ala Lys Ala Leu						
	290		295		300	
Ala Glu Thr Gly Ile Ala Val Pro Ser Tyr Tyr Asn Pro Ala Ala Val						
	305		310		315	320
Asn Pro Met Lys Phe Ala Glu Gln Glu Lys Lys Arg Lys Met Leu Trp						
	325		330		335	
Gln Gly Lys Lys Glu Gly Asp Lys Ser Gln Ser Ala Glu Ile Trp Glu						
	340		345		350	
Lys Leu Asn Phe Gly Asn Lys Asp Gln Asn Val Lys Phe Arg Lys Leu						
	355		360		365	
Met Gly Ile Lys Ser Glu Asp Glu Ala Gly Cys Ser Ser Val Asp Glu						
	370		375		380	
Glu Ser Tyr Lys Thr Leu Lys Gln Gln Glu Glu Val Phe Arg Asn Leu						
	385		390		395	400
Asp Ala Gln Tyr Glu Met Ala Arg Ser Gln Thr His Thr Gln Arg Gly						
	405		410		415	
Met Gly Leu Gly Phe Thr Ser Ser Met Arg Gly Met Asp Ala Val						

5052

420

425

430

<210> 5760

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5760

Ala Gly Val Phe Ile Gly Glu Arg Lys Cys Val Val Trp Ala Gly Leu
 1 5 10 15

Leu Val Glu Ala Gly Phe Leu Ala His Leu Leu Tyr Met Leu Pro Met
 20 25 30

Asp Leu Arg Leu Glu Met Leu Lys Val Glu Trp Asn Tyr Phe Pro Pro
 35 40 45

Lys Thr Phe Ile Tyr Ser Thr Pro Leu Tyr Pro
 50 55

<210> 5761

<211> 99

<212> PRT

<213> Homo sapiens

<400> 5761

Val Ile Phe Tyr Phe Thr Asn Lys Gly Thr Lys Ser Met Asn Ile Ser
 1 5 10 15

Leu Phe Leu Ile Ile Ser Ala Leu Lys Tyr Phe Gly Tyr Leu Ala Pro
 20 25 30

Val Arg Ala Asp Trp His Cys Leu Val Gln Glu Val Cys Ser Arg Cys
 35 40 45

Ser Ala Ser Glu Leu His Tyr Asp Cys Pro Pro Thr Asn His Pro Pro
 50 55 60

Ala Ser Pro Arg Glu Arg Gly Ile Gln Arg Gly Thr Val Leu Thr Arg
 65 70 75 80

Ser Ser Gln Leu Asp Pro Gly Gln Arg Asn Pro Tyr Pro Gly Thr Leu
 85 90 95

Ser Leu Ser

5053

<210> 5762

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5762

Pro Pro Ser Leu Thr Lys Gly Asn Lys Ser Trp Cys Ser Thr Ala Val
 1 5 10 15

Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
 20 25 30

Arg Phe Pro Leu Phe Leu Gly Val Ser Ile Leu Ser Pro Trp Lys Met
 35 40 45

<210> 5763

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5763

Trp Asn Glu His Arg Pro Leu Asn Pro Arg Tyr Glu Phe Lys Ser Gln
 1 5 10 15

Leu Trp Arg Trp Leu Leu Lys Val Ser Val Pro Ser Phe Phe Xaa Leu
 20 25 30

Tyr Lys Val Asp Ile Thr Ile Ser Asn Leu Gln Ser His Trp Glu Leu
 35 40 45

5054

Tyr Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser
 50 55 60
 Lys Cys Trp Leu Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile
 65 70 75 80
 Ile Ile Ser Leu Xaa Xaa Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe
 85 90 95
 Pro Gln Tyr Phe Pro
 100

<210> 5764

<211> 136

<212> PRT

<213> Homo sapiens

<400> 5764

Cys Val Ile Leu Thr Lys Gly Ser Ser Leu Gly Gln Pro Ser Pro Gly
 1 5 10 15
 Leu Gly His Ile His Leu Val Ala Lys Pro Leu Leu Gly Pro Lys Tyr
 20 25 30
 Thr Pro Glu Ser Cys Gln Arg Lys Glu Ile Phe Lys Lys His Arg Gln
 35 40 45
 Ile Val Cys Lys Trp Lys Ile Pro Ile Gly Leu Asp Ser Cys Gly Gly
 50 55 60
 Lys Thr Ser Trp Val Pro Gly Gly Cys Gln Ser Trp Glu Leu Cys Arg
 65 70 75 80
 Tyr Glu Ser Gly Lys Ala Gln Arg Gln Ala Glu Ser Leu Tyr Gly Asp
 85 90 95
 Asn Leu Gln Cys Leu Leu Gly Phe Pro Asn Asn Leu Gly Val Gln Ser
 100 105 110
 Ile Gly Phe Phe Ser Pro Leu Pro Thr Pro Arg Lys Ile Ile Arg Lys
 115 120 125
 Met Phe Arg Arg Lys Glu Lys Asn
 130 135

<210> 5765

5055

<211> 168
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (160)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (161)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (167)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5765
 Val Arg Val Gln Glu Val Val Lys Glu Asn Glu Glu Leu His Gln Glu
 1 5 10 15
 Leu Asn Lys Ser Ser Ala Val Thr Ser Glu Glu Trp Arg Gln Leu Gln
 20 25 30
 Thr Xaa Ala Lys Leu Val Leu Glu Glu Asn Lys Leu Leu Leu Glu Gln
 35 40 45
 Leu Glu Ile Gln Gln Arg Lys Ala Lys Asp Ser His Gln Glu Arg Leu
 50 55 60
 Gln Glu Val Ser Lys Leu Thr Lys Gln Leu Met Leu Leu Glu Ala Lys
 65 70 75 80
 Thr His Gly Gln Glu Lys Glu Leu Ala Glu Asn Arg Glu Gln Leu Glu
 85 90 95
 Ile Leu Arg Ala Lys Cys Gln Glu Leu Lys Thr His Ser Asp Gly Lys
 100 105 110

5056

Ile Ala Val Glu Val His Lys Ser Ile Val Asn Glu Leu Lys Ser Gln
 115 120 125

Leu Gln Lys Glu Glu Xaa Lys Glu Arg Ala Glu Met Glu Glu Leu Met
 130 135 140

Glu Lys Leu Thr Val Leu Gln Ala Gln Lys Lys Ser Leu Leu Leu Xaa
 145 150 155 160

Xaa Asn Ile Leu Thr Glu Xaa Asn
 165

<210> 5766

<211> 135

<212> PRT

<213> Homo sapiens

<400> 5766

Ile Arg His Glu Val Val Gly Gly Ser Gly Gly Val Tyr Ala Leu Cys
 1 5 10 15

Ser Ala His Leu Ala Asn Val Val Met Asn Trp Ala Gly Met Arg Cys
 20 25 30

Pro Tyr Lys Leu Leu Arg Met Val Leu Ala Leu Val Cys Met Ser Ser
 35 40 45

Glu Val Gly Arg Ala Val Trp Leu Arg Phe Ser Pro Pro Leu Pro Ala
 50 55 60

Ser Gly Pro Gln Pro Ser Phe Met Ala His Leu Ala Gly Ala Val Val
 65 70 75 80

Gly Val Ser Met Gly Leu Thr Ile Leu Arg Ser Tyr Glu Glu Arg Leu
 85 90 95

Arg Asp Gln Cys Gly Trp Trp Val Val Leu Leu Ala Tyr Gly Thr Phe
 100 105 110

Leu Leu Phe Ala Val Phe Trp Asn Val Phe Ala Tyr Asp Leu Leu Gly
 115 120 125

Ala His Ile Pro Pro Pro Pro
 130 135

<210> 5767

<211> 351

5057

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5767

```

Ile Arg His Glu Ile Leu Trp Leu Leu Cys Ser His Arg Pro Ala Pro
 1             5             10             15

Gly Arg Pro Pro Thr His Asn Ala His Asn Trp Arg Leu Gly Gln Ala
          20             25             30

Pro Ala Xaa Trp Tyr Asn Asp Thr Tyr Pro Leu Ser Pro Pro Gln Arg
          35             40             45

Thr Pro Ala Gly Ile Arg Tyr Arg Ile Ala Val Ile Ala Asp Leu Asp
          50             55             60

Thr Glu Ser Arg Ala Gln Glu Glu Asn Thr Trp Phe Ser Tyr Leu Lys
          65             70             75             80

Lys Gly Tyr Leu Thr Leu Ser Asp Ser Gly Asp Lys Val Ala Val Glu
          85             90             95

Trp Asp Lys Asp His Gly Val Leu Glu Ser His Leu Ala Glu Lys Gly
          100            105            110

Arg Gly Met Glu Leu Ser Asp Leu Ile Val Phe Asn Gly Lys Leu Tyr
          115            120            125

Ser Val Asp Asp Arg Thr Gly Val Val Tyr Gln Ile Glu Gly Ser Lys
          130            135            140

Ala Val Pro Trp Val Ile Leu Ser Asp Gly Asp Gly Thr Val Glu Lys
          145            150            155            160

Gly Phe Lys Ala Glu Trp Leu Ala Val Lys Asp Glu Arg Leu Tyr Val
          165            170            175

Gly Gly Leu Gly Lys Glu Trp Thr Thr Thr Thr Gly Asp Val Val Asn
          180            185            190

Glu Asn Pro Glu Trp Val Lys Val Val Gly Tyr Lys Gly Ser Val Asp
          195            200            205

His Glu Asn Trp Val Ser Asn Tyr Asn Ala Leu Arg Ala Ala Ala Gly
          210            215            220

```

5058

Ile Gln Pro Pro Gly Tyr Leu Ile His Glu Ser Ala Cys Trp Ser Asp
 225 230 235 240

Thr Leu Gln Arg Trp Phe Phe Leu Pro Arg Arg Ala Ser Gln Glu Arg
 245 250 255

Tyr Ser Glu Lys Asp Asp Glu Arg Lys Gly Ala Asn Leu Leu Leu Ser
 260 265 270

Ala Ser Pro Asp Phe Gly Asp Ile Ala Val Ser His Val Gly Ala Val
 275 280 285

Val Pro Thr His Gly Phe Ser Ser Phe Lys Phe Ile Pro Asn Thr Asp
 290 295 300

Asp Gln Ile Ile Val Ala Leu Lys Ser Glu Glu Asp Ser Gly Arg Val
 305 310 315 320

Ala Ser Tyr Ile Met Ala Phe Thr Leu Asp Gly Arg Phe Leu Leu Pro
 325 330 335

Glu Thr Lys Ile Gly Ser Val Lys Tyr Glu Gly Ile Glu Phe Ile
 340 345 350

<210> 5768

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5768

Asn Tyr Gln Ile Ser Glu Ile Tyr Phe Leu Leu Val Thr Met Lys Ser
 1 5 10 15

Thr Phe Thr Leu Glu Ser Asn Cys Asn Thr Pro Lys Ile Arg Ala Thr
 20 25 30

Lys Gly Met Tyr Gly Ala Phe Phe Asn Leu Lys Asn Cys Ile Leu Phe
 35 40 45

Leu Ile Pro Tyr Leu Lys His
 50 55

<210> 5769

<211> 121

<212> PRT

<213> Homo sapiens

5059

<400> 5769

```

Tyr Pro Phe Phe Thr Leu Cys Gln Arg Asn Arg Val Phe Asp Ile Ser
 1              5              10              15

Ser Tyr Val Lys Glu Met Leu Gln Asn Val Asn Cys Phe Lys Leu Lys
          20              25              30

Leu Pro Leu Lys Arg Pro Arg Tyr Ile Tyr Leu Ile Val Tyr Ile Met
          35              40              45

Phe Asn Ile Cys Gln Ser Ile Leu Gln Val Cys Ser Phe Ile Ser Ile
          50              55              60

Lys Tyr Gly Tyr Tyr Val Ala Gln Leu Leu Lys Trp Tyr Cys Ile Val
 65              70              75              80

Tyr Ile Cys Thr Pro Asn Asn Ile Val Cys Thr Phe Cys Phe Leu Tyr
          85              90              95

Cys Ile Cys Ala Gly Phe Phe Arg Leu Tyr Gln Cys Asn Leu Cys Leu
          100             105             110

Leu Arg Tyr Val Gln Lys Met Ser Ile
          115             120

```

<210> 5770

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5770

```

Glu Phe Gly Thr Ser His Trp Asp Met Ser Leu Pro Leu Ile Val Thr
 1              5              10              15

Leu Ser Thr Ile Ser Ile Ile Leu Leu Ala Ala Met Ile Thr Ile Ala
          20              25              30

Val Lys Cys Lys Arg Glu Asn Lys Glu Ile Arg Thr Tyr Asn Cys Arg
          35              40              45

Ile Ala Glu Tyr Ser His Pro Gln Leu Gly Gly Gly Lys Gly Lys Lys
          50              55              60

Lys Lys Ile Asn Lys Asn Asp Ile Met Leu Val Gln Ser Glu Val Glu

```

5060

65		70		75		80									
Glu	Arg	Asn	Ala	Met	Asn	Val	Met	Asn	Val	Val	Ser	Ser	Pro	Ser	Leu
				85					90					95	
Ala	Thr	Ser	Pro	Met	Tyr	Phe	Asp	Tyr	Gln	Thr	Arg	Leu	Pro	Leu	Ser
			100					105					110		
Ser	Pro	Arg	Ser	Glu	Val	Met	Tyr	Leu	Lys	Pro	Ala	Ser	Asn	Asn	Leu
		115					120					125			
Thr	Val	Pro	Gln	Gly	His	Ala	Gly	Cys	His	Thr	Ser	Phe	Thr	Gly	Gln
	130					135					140				
Gly	Thr	Asn	Ala	Ser	Glu	Thr	Pro	Ala	Thr	Arg	Met	Ser	Ile	Ile	Gln
145					150					155					160
Thr	Asp	Asn	Phe	Pro	Ala	Glu	Pro	Asn	Tyr	Met	Gly	Ser	Arg	Gln	Gln
				165					170					175	
Phe	Val	Gln	Ser	Xaa	Ser	Thr	Phe	Lys	Asp	Pro	Glu	Arg	Pro	Ala	
			180					185					190		

<210> 5771

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5771

Arg	Xaa	Pro	Xaa	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala
1				5					10					15	

Val	Thr	Thr	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser
			20					25					30		

5061

Ala	Arg	Ala	Pro	Ala	Ser	Arg	Ser	Arg	Thr	Pro	Pro	Ala	Ser	Arg	Leu	
35						40						45				
Thr	Arg	Ser	Cys	Gln	Arg	Arg	Ser	Ala	Ala	Ala	Glu	Pro	Lys	Gly	Pro	
50						55						60				
Glu	Asp	Ser	Gly	Ala	Gly	Gly	Thr	Gly	Cys	Gly	Gly	Ala	Asp	Asp	Pro	
65						70						75			80	
Ala	Lys	Lys	Lys	Lys	Gln	Arg	Arg	Gln	Arg	Thr	His	Phe	Thr	Xaa	Gln	
			85						90						95	
Gln	Leu	Gln	Glu	Leu	Glu	Ala	Thr	Phe	Gln	Arg	Asn	Arg	Tyr	Pro	Asp	
			100						105						110	
Met	Ser	Met	Arg	Glu	Glu	Ile	Ala	Val	Trp	Thr	Asn	Leu	Thr	Glu	Pro	
115						120						125				
Arg																

<210> 5772

<211> 399

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

 $\langle 222 \rangle$ (208)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (349)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5772

Leu Glu Pro Pro Ala Glu Pro Leu Gln Tyr Leu Ala Cys Tyr Arg Phe
1 5 10 15

His Cys Ser His Gln Leu Gly Asp Asn Met Trp Phe Leu Thr Thr Leu
20 25 30

Leu Leu Trp Val Pro Val Asp Gly Gln Val Asp Thr Thr Lys Ala Val
35 40 45

Ile Thr Leu Gln Pro Pro Trp Val Ser Val Phe Gln Glu Glu Thr Val
50 55 60

5062

Thr	Leu	His	Cys	Glu	Val	Leu	His	Leu	Pro	Gly	Ser	Ser	Ser	Thr	Gln	65	70	75	80
Trp	Phe	Leu	Asn	Gly	Thr	Ala	Thr	Gln	Thr	Ser	Thr	Pro	Ser	Tyr	Arg	85	90	95	
Ile	Thr	Ser	Ala	Ser	Val	Asn	Asp	Ser	Gly	Glu	Tyr	Arg	Cys	Gln	Arg	100	105	110	
Gly	Leu	Ser	Gly	Arg	Ser	Asp	Pro	Ile	Gln	Leu	Glu	Ile	His	Arg	Gly	115	120	125	
Trp	Leu	Leu	Leu	Gln	Val	Ser	Ser	Arg	Val	Phe	Thr	Glu	Gly	Glu	Pro	130	135	140	
Leu	Ala	Leu	Arg	Cys	His	Ala	Trp	Lys	Asp	Lys	Leu	Val	Tyr	Asn	Val	145	150	155	160
Leu	Tyr	Tyr	Arg	Asn	Gly	Lys	Ala	Phe	Lys	Phe	Phe	His	Trp	Asn	Ser	165	170	175	
Asn	Leu	Thr	Ile	Leu	Lys	Thr	Asn	Ile	Ser	His	Asn	Gly	Thr	Tyr	His	180	185	190	
Cys	Ser	Gly	Met	Gly	Lys	His	Arg	Tyr	Thr	Ser	Ala	Gly	Ile	Ser	Xaa	195	200	205	
Thr	Val	Lys	Glu	Leu	Phe	Pro	Ala	Pro	Val	Leu	Asn	Ala	Ser	Val	Thr	210	215	220	
Ser	Pro	Leu	Leu	Glu	Gly	Asn	Leu	Val	Thr	Leu	Ser	Cys	Glu	Thr	Lys	225	230	235	240
Leu	Leu	Leu	Gln	Arg	Pro	Gly	Leu	Gln	Leu	Tyr	Phe	Ser	Phe	Tyr	Met	245	250	255	
Gly	Ser	Lys	Thr	Leu	Arg	Gly	Arg	Asn	Thr	Ser	Ser	Glu	Tyr	Gln	Ile	260	265	270	
Leu	Thr	Ala	Arg	Arg	Glu	Asp	Ser	Gly	Leu	Tyr	Trp	Cys	Glu	Ala	Ala	275	280	285	
Thr	Glu	Asp	Gly	Asn	Val	Leu	Lys	Arg	Ser	Pro	Glu	Leu	Glu	Leu	Gln	290	295	300	
Val	Leu	Gly	Leu	Gln	Leu	Pro	Thr	Pro	Val	Trp	Phe	His	Val	Leu	Phe	305	310	315	320
Tyr	Leu	Ala	Val	Gly	Ile	Met	Phe	Leu	Val	Asn	Thr	Val	Leu	Trp	Val	325	330	335	

5063

Thr Ile Arg Lys Glu Leu Lys Arg Lys Lys Lys Trp Xaa Leu Glu Ile
 340 345 350

Ser Leu Asp Ser Gly His Glu Lys Lys Val Ile Ser Ser Leu Gln Glu
 355 360 365

Asp Arg His Leu Glu Glu Glu Leu Lys Cys Gln Glu Gln Lys Glu Glu
 370 375 380

Gln Leu Gln Glu Gly Val His Arg Lys Glu Pro Gln Gly Ala Thr
 385 390 395

<210> 5773

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5773

Gly Asp Arg Ala Glu Pro Ser Val Tyr Trp Ala Ala Val Thr Leu Arg
 1 5 10 15

Phe Gln Met Xaa Met Phe Glu Ser Ala Asp Ser Thr Ala Thr Arg Ser
 20 25 30

Gly Gln Asp Leu Trp Ala Glu Ile Cys Ser Cys Leu Pro Asn Pro Glu
 35 40 45

Gln Glu Asp Gly Ala Asn Asn Ala Phe Ser Asp Ser Phe Val Asp Ser
 50 55 60

Cys Pro Glu Gly Glu Gly Gln Arg Glu Val Ala Asp Phe Ala Val Gln
 65 70 75 80

Pro Ala Val Lys Pro Trp Ala Pro Leu Gln Asp Ser Glu Val Tyr Leu
 85 90 95

Ala Ser Leu Glu Lys Lys Leu Arg Arg Ile Lys Gly Leu Asn Gln Glu
 100 105 110

5064

Val Thr Ser Lys Asp Met Leu Arg Thr Leu Ala Gln Ala Lys Lys Glu
 115 120 125

Cys Trp Asp Arg Phe Leu Gln Glu Lys Leu Ala Ser Glu Phe Phe Val
 130 135 140

Asp Gly Leu Asp Ser Asp Glu Ser Thr Xaa Gly Thr Phe Gln Glu Val
 145 150 155 160

Ala Pro Ala Arg

<210> 5774

<211> 184

<212> PRT

<213> Homo sapiens

<400> 5774

Lys Met Ala Ser Asn Lys Thr Thr Leu Gln Lys Met Gly Lys Lys Gln
 1 5 10 15

Asn Gly Lys Ser Lys Lys Val Glu Glu Ala Glu Pro Glu Glu Phe Val
 20 25 30

Val Glu Lys Val Leu Asp Arg Arg Val Val Asn Gly Lys Val Glu Tyr
 35 40 45

Phe Leu Lys Trp Lys Gly Phe Thr Asp Ala Asp Asn Thr Trp Glu Pro
 50 55 60

Glu Glu Asn Leu Asp Cys Pro Glu Leu Ile Glu Ala Phe Leu Asn Ser
 65 70 75 80

Gln Lys Ala Gly Lys Glu Lys Asp Gly Thr Lys Arg Lys Ser Leu Ser
 85 90 95

Asp Ser Glu Ser Asp Asp Ser Lys Ser Lys Lys Lys Arg Asp Ala Ala
 100 105 110

Asp Lys Pro Arg Gly Phe Ala Arg Gly Leu Asp Pro Glu Arg Ile Ile
 115 120 125

Gly Ala Thr Asp Ser Ser Gly Glu Leu Met Phe Leu Met Lys Trp Lys
 130 135 140

Asp Ser Asp Glu Ala Asp Leu Val Leu Ala Lys Glu Ala Asn Met Lys
 145 150 155 160

5065

Cys Pro Gln Ile Val Ile Ala Phe Tyr Glu Glu Arg Leu Thr Trp His
 165 170 175

Ser Cys Pro Glu Asp Glu Ala Gln
 180

<210> 5775

<211> 76

<212> PRT

<213> Homo sapiens

<400> 5775

Lys Val Thr Glu Asp Thr Ser Ser Val Leu Arg Ser Pro Met Pro Gly
 1 5 10 15

Val Val Val Ala Val Ser Val Lys Pro Gly Asp Ala Val Ala Glu Gly
 20 25 30

Gln Glu Ile Cys Val Ile Glu Ala Met Lys Met Gln Asn Ser Met Thr
 35 40 45

Ala Gly Lys Thr Gly Thr Val Lys Ser Val His Cys Gln Ala Gly Asp
 50 55 60

Thr Val Gly Glu Gly Asp Leu Leu Val Glu Leu Glu
 65 70 75

<210> 5776

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5776

Thr Leu Gln Ser Lys Asp Ile Asp Trp Leu Asn Glu Trp Arg Lys Gln
 1 5 10 15

Asp Pro Leu Ile Cys Cys Leu Gln Glu Thr His Leu Asn Tyr Lys Asp
 20 25 30

Thr His Arg Leu Lys Val Lys Ser Trp Lys Glu Leu Phe His Ala Asn
 35 40 45

Gly Asn Gln Glu Lys Glu Lys Glu Tyr
 50 55

5066

<210> 5777

<211> 277

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5777

Arg	Gln	Lys	Gly	Thr	Ala	Ala	Arg	Arg	Arg	Gln	Xaa	Gly	Leu	Leu	Ala
1				5					10					15	

Ser	Ser	Arg	Pro	Glu	Pro	Ala	Asn	Glu	Arg	Lys	Met	Ala	Asp	Asn	Phe
			20					25					30		

Ser	Leu	His	Asp	Ala	Leu	Ser	Gly	Ser	Gly	Asn	Pro	Asn	Pro	Gln	Gly
		35					40					45			

Trp	Pro	Gly	Ala	Trp	Gly	Asn	Gln	Pro	Ala	Gly	Ala	Gly	Gly	Tyr	Pro
	50					55					60				

Gly	Ala	Ser	Tyr	Pro	Gly	Ala	Tyr	Pro	Gly	Gln	Ala	Pro	Pro	Gly	Ala
	65				70					75					80

Tyr	Pro	Gly	Gln	Ala	Pro	Pro	Gly	Ala	Tyr	Xaa	Gly	Ala	Pro	Gly	Ala
				85					90					95	

Tyr	Pro	Gly	Ala	Pro	Ala	Pro	Gly	Val	Tyr	Pro	Gly	Pro	Pro	Ser	Gly
			100					105					110		

Pro	Gly	Ala	Tyr	Pro	Ser	Ser	Gly	Gln	Pro	Ser	Ala	Xaa	Gly	Ala	Tyr
		115					120					125			

Pro	Ala	Thr	Gly	Pro	Tyr	Gly	Ala	Pro	Ala	Gly	Pro	Leu	Ile	Val	Pro
		130				135					140				

Tyr	Asn	Leu	Pro	Leu	Pro	Gly	Gly	Val	Val	Pro	Arg	Met	Leu	Ile	Thr
145					150					155					160

5067

Ile Leu Gly Thr Val Lys Pro Asn Ala Asn Arg Ile Ala Leu Asp Phe
 165 170 175
 Gln Arg Gly Asn Asp Val Ala Phe His Phe Asn Pro Arg Phe Asn Glu
 180 185 190
 Asn Asn Arg Arg Val Ile Val Cys Asn Thr Lys Leu Asp Asn Asn Trp
 195 200 205
 Gly Arg Glu Glu Arg Gln Ser Val Phe Pro Phe Glu Ser Gly Lys Pro
 210 215 220
 Phe Lys Ile Gln Val Leu Val Glu Pro Asp His Phe Lys Val Ala Val
 225 230 235 240
 Asn Asp Ala His Leu Leu Gln Tyr Asn His Arg Val Lys Lys Leu Asn
 245 250 255
 Glu Ile Ser Lys Leu Gly Ile Ser Gly Asp Ile Asp Leu Thr Ser Ala
 260 265 270
 Ser Tyr Thr Met Ile
 275

<210> 5778

<211> 565

<212> PRT

<213> Homo sapiens

<400> 5778

Leu His Cys Thr Met Cys Gly Ile Trp Ala Leu Phe Gly Ser Asp Asp
 1 5 10 15
 Cys Leu Ser Val Gln Cys Leu Ser Ala Met Lys Ile Ala His Arg Gly
 20 25 30
 Pro Asp Ala Phe Arg Phe Glu Asn Val Asn Gly Tyr Thr Asn Cys Cys
 35 40 45
 Phe Gly Phe His Arg Leu Ala Val Val Asp Pro Leu Phe Gly Met Gln
 50 55 60
 Pro Ile Arg Val Lys Lys Tyr Pro Tyr Leu Trp Leu Cys Tyr Asn Gly
 65 70 75 80
 Glu Ile Tyr Asn His Lys Lys Met Gln Gln His Phe Glu Phe Glu Tyr
 85 90 95
 Gln Thr Lys Val Asp Gly Glu Ile Ile Leu His Leu Tyr Asp Lys Gly

5068

100	105	110
Gly Ile Glu Gln Thr Ile Cys Met Leu Asp Gly Val Phe Ala Phe Val		
115	120	125
Leu Leu Asp Thr Ala Asn Lys Lys Val Phe Leu Gly Arg Asp Thr Tyr		
130	135	140
Gly Val Arg Pro Leu Phe Lys Ala Met Thr Glu Asp Gly Phe Leu Ala		
145	150	155
Val Cys Ser Glu Ala Lys Gly Leu Val Thr Leu Lys His Ser Ala Thr		
165	170	175
Pro Phe Leu Lys Val Glu Pro Phe Leu Pro Gly His Tyr Glu Val Leu		
180	185	190
Asp Leu Lys Pro Asn Gly Lys Val Ala Ser Val Glu Met Val Lys Tyr		
195	200	205
His His Cys Arg Asp Glu Pro Leu His Ala Leu Tyr Asp Asn Val Glu		
210	215	220
Lys Leu Phe Pro Gly Phe Glu Ile Glu Thr Val Lys Asn Asn Leu Arg		
225	230	235
Ile Leu Phe Asn Asn Ala Val Lys Lys Arg Leu Met Thr Asp Arg Arg		
245	250	255
Ile Gly Cys Leu Leu Ser Gly Gly Leu Asp Ser Ser Leu Val Ala Ala		
260	265	270
Thr Leu Leu Lys Gln Leu Lys Glu Ala Gln Val Gln Tyr Pro Leu Gln		
275	280	285
Thr Phe Ala Ile Gly Met Glu Asp Ser Pro Asp Leu Leu Ala Ala Arg		
290	295	300
Lys Val Ala Asp His Ile Gly Ser Glu His Tyr Glu Val Leu Phe Asn		
305	310	315
Ser Glu Glu Gly Ile Gln Ala Leu Asp Glu Val Ile Phe Ser Leu Glu		
325	330	335
Thr Tyr Asp Ile Thr Thr Val Arg Ala Ser Val Gly Met Tyr Leu Ile		
340	345	350
Ser Lys Tyr Ile Arg Lys Asn Thr Asp Ser Val Val Ile Phe Ser Gly		
355	360	365
Glu Gly Ser Asp Glu Leu Thr Gln Gly Tyr Ile Tyr Phe His Lys Ala		

5069

370					375					380					
Pro	Ser	Pro	Glu	Lys	Ala	Glu	Glu	Glu	Ser	Glu	Arg	Leu	Leu	Arg	Glu
385					390					395					400
Leu	Tyr	Leu	Phe	Asp	Val	Leu	Arg	Ala	Asp	Arg	Thr	Thr	Ala	Ala	His
				405					410					415	
Gly	Leu	Glu	Leu	Arg	Val	Pro	Phe	Leu	Asp	His	Arg	Phe	Ser	Ser	Tyr
			420					425					430		
Tyr	Leu	Ser	Leu	Pro	Pro	Glu	Met	Arg	Ile	Pro	Lys	Asn	Gly	Ile	Glu
		435					440					445			
Lys	His	Leu	Leu	Arg	Glu	Thr	Phe	Glu	Asp	Ser	Asn	Leu	Ile	Pro	Lys
	450					455					460				
Glu	Ile	Leu	Trp	Arg	Pro	Lys	Glu	Ala	Phe	Ser	Asp	Gly	Ile	Thr	Ser
465					470					475					480
Val	Lys	Asn	Ser	Trp	Phe	Lys	Ile	Leu	Gln	Glu	Tyr	Val	Glu	His	Gln
				485				490						495	
Val	Asp	Asp	Ala	Met	Met	Ala	Asn	Ala	Ala	Gln	Lys	Phe	Pro	Phe	Asn
			500					505					510		
Thr	Pro	Lys	Thr	Lys	Glu	Gly	Tyr	Tyr	Tyr	Arg	Gln	Val	Phe	Glu	Arg
		515					520					525			
His	Tyr	Pro	Gly	Arg	Ala	Asp	Trp	Leu	Ser	His	Tyr	Trp	Met	Pro	Lys
	530					535					540				
Trp	Ile	Asn	Ala	Thr	Asp	Pro	Ser	Ala	Arg	Thr	Leu	Thr	His	Tyr	Lys
545					550					555					560
Ser	Ala	Val	Lys	Ala											
				565											

<210> 5779

<211> 173

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5779

5070

Cys Phe Ala Ser Asp Arg Ile Ser Leu His Arg Asp Leu Gly Pro Asp
 1 5 10 15
 Thr Arg Pro Pro Glu Cys Ile Glu Gln Lys Phe Lys Arg Cys Pro Pro
 20 25 30
 Leu Pro Thr Thr Ser Val Ile Ile Val Phe His Asn Glu Ala Trp Ser
 35 40 45
 Thr Leu Leu Arg Thr Val His Ser Val Leu Tyr Ser Ser Pro Ala Ile
 50 55 60
 Leu Leu Lys Glu Ile Ile Leu Val Asp Asp Ala Ser Val Asp Glu Tyr
 65 70 75 80
 Leu His Asp Lys Leu Asp Glu Tyr Val Lys Gln Phe Ser Ile Val Lys
 85 90 95
 Ile Val Arg Gln Arg Glu Arg Lys Gly Leu Ile Thr Ala Xaa Leu Leu
 100 105 110
 Gly Ala Thr Val Ala Thr Ala Glu Thr Leu Thr Phe Leu Asp Ala His
 115 120 125
 Cys Glu Cys Phe Tyr Gly Trp Leu Glu Pro Leu Leu Ala Arg Ile Ala
 130 135 140
 Glu Asn Tyr Thr Ala Val Val Ser Pro Asp Ile Ala Ser Ile Asp Leu
 145 150 155 160
 Asn Thr Phe Glu Phe Asn Lys Pro Ser Pro Tyr Gly Lys
 165 170

<210> 5780

<211> 49

<212> PRT

<213> Homo sapiens

<400> 5780

Glu Lys Leu Thr Asp Leu Asn Lys Trp Gly Ser Thr Pro Cys Ser Thr
 1 5 10 15
 Ile Gly Lys Leu Arg Ile Val Lys Met Ser Phe Leu Pro Lys Leu Ile
 20 25 30
 Tyr Lys Ser Gln Lys Thr Phe Phe Leu Gln Thr Leu Ile Lys Val Val
 35 40 45
 Phe

5071

<210> 5781

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5072

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5781

Ser	Cys	Lys	Lys	Asp	Met	Lys	Asn	Met	Asn	Tyr	Cys	Thr	Ser	His	Cys
1				5					10					15	

Tyr	Phe	His	Val	Gln	Tyr	Ser	Arg	Xaa	Ile	Leu	Thr	Thr	Ile	Asp	Xaa
			20					25					30		

Xaa	Leu	Lys	Xaa	Val	Xaa	Gly	Lys	Xaa	Xaa	Xaa	Ile	Leu	Xaa	Ile	Xaa
		35					40					45			

Ile	Ala	Xaa	Glu	Arg	Arg	Ile	Gln	Gly	Pro	Glu	Xaa	Gly	Ala	Thr
	50					55					60			

<210> 5782

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5782

Met	Arg	Arg	Val	Ile	Leu	His	Ser	Pro	Leu	Met	Ser	Gly	Leu	Arg	Val
1				5					10					15	

Ala	Phe	Pro	Asp	Thr	Arg	Lys	Thr	Tyr	Cys	Phe	Asp	Ala	Phe	Pro	Ser
			20					25					30		

Ile	Asp	Lys	Ile	Ser	Lys	Val	Thr	Ser	Pro	Val	Leu	Val	Ile	His	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5073

35 40 45
 Thr Glu Asp Glu Val Ile Asp Phe Ser His Gly Leu Ala Met Tyr Glu
 50 55 60
 Arg Cys Pro Arg Ala Val Glu Pro Leu Trp Xaa Glu Gly Ala Gly His
 65 70 75 80
 Asn Asp Ile Glu Leu Tyr Ala Gln Tyr Leu Glu Arg Leu Lys Gln Phe
 85 90 95
 Ile Ser His Glu Leu Pro Asn Ser
 100

<210> 5783

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5783

Ser Phe Arg Leu Xaa Cys Glu Leu Arg Arg Cys Met Xaa Gly Asn Asn
 1 5 10 15

Met Ser Thr Pro Leu Pro Ala Ile Val Pro Ala Ala Arg Lys Ala Thr
 20 25 30

Ala Ala Val Ile Phe Leu His Gly Leu Gly Xaa Thr Gly Pro Val Arg
 35 40 45

Pro Val Thr Leu Asn Met Asn Val Ala Met Pro Ser Trp Phe Asp Ile
 50 55 60

Ile Gly Leu Ser Pro Asp Ser Gln Glu Asp Glu Ser Gly Ile Lys Gln
 65 70 75 80

5074

Ala	Ala	Glu	Asn	Ile	Lys	Ala	Leu	Ile	Asp	Gln	Glu	Val	Lys	Asn	Gly	
			85						90			95				
Ile	Pro	Ser	Asn	Arg	Ile	Ile	Leu	Gly	Gly	Phe	Ser	Gln	Gly	Gly	Ala	
			100						105			110				
Leu	Ser	Leu	Tyr	Thr	Ala	Leu	Thr	Thr	Gln	Gln	Lys	Leu	Ala	Gly	Val	
			115						120			125				
Thr	Ala	Leu	Ser	Cys	Trp	Leu	Pro	Leu	Arg	Ala	Ser	Phe	Pro	Gln	Gly	
			130						135			140				
Pro	Ile	Gly	Gly	Ala	Asn	Arg	Asp	Ile	Ser	Ile	Leu	Gln	Cys	His	Gly	
145						150						155			160	
Asp	Cys	Asp	Pro	Leu	Val	Pro	Leu	Met	Phe	Gly	Ser	Leu	Thr	Val	Glu	
			165						170						175	
Lys	Leu	Lys	Thr	Leu	Val	Asn	Pro	Ala	Asn	Val	Thr	Phe	Lys	Thr	Tyr	
			180						185						190	
Glu	Gly	Met	Met	His	Ser	Ser	Cys	Gln	Gln	Glu	Met	Met	Asp	Val	Lys	
			195						200						205	
Gln	Phe	Ile	Asp	Lys	Leu	Leu	Pro	Pro	Ile	Asp						
210						215										

<210> 5784

<211> 326

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

 $\langle 222 \rangle \quad (123)$

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

 $\langle 222 \rangle \quad (136)$

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5784

Pro Arg His Gly Gln His His Arg Glu Gln Gly Asp Thr Ala Ile Leu
1 5 10 15

Arg Cys Val Val Glu Asp Lys Asn Ser Lys Val Ala Trp Leu Asn Arg
20 25 30

5075

Ser	Gly	Ile	Ile	Phe	Ala	Gly	His	Asp	Lys	Trp	Ser	Leu	Asp	Pro	Arg		
		35					40					45					
Val	Glu	Leu	Glu	Lys	Arg	His	Ser	Leu	Glu	Tyr	Ser	Leu	Arg	Ile	Gln		
		50				55					60						
Lys	Val	Asp	Val	Tyr	Asp	Glu	Gly	Ser	Tyr	Thr	Cys	Ser	Val	Gln	Thr		
		65			70					75					80		
Gln	His	Glu	Pro	Lys	Thr	Ser	Gln	Val	Tyr	Leu	Ile	Val	Gln	Val	Pro		
				85					90					95			
Pro	Lys	Ile	Ser	Asn	Ile	Ser	Ser	Asp	Val	Thr	Val	Asn	Glu	Gly	Ser		
			100					105					110				
Asn	Val	Thr	Leu	Val	Cys	Met	Ala	Asn	Gly	Xaa	Pro	Glu	Pro	Val	Ile		
		115					120					125					
Thr	Trp	Arg	His	Leu	Thr	Pro	Xaa	Gly	Arg	Glu	Phe	Glu	Gly	Glu	Glu		
		130				135					140						
Glu	Tyr	Leu	Glu	Ile	Leu	Gly	Ile	Thr	Arg	Glu	Gln	Ser	Gly	Lys	Tyr		
		145			150					155					160		
Glu	Cys	Lys	Ala	Ala	Asn	Glu	Val	Ser	Ser	Ala	Asp	Val	Lys	Gln	Val		
				165					170					175			
Lys	Val	Thr	Val	Asn	Tyr	Pro	Pro	Thr	Ile	Thr	Glu	Ser	Lys	Ser	Asn		
			180					185					190				
Glu	Ala	Thr	Thr	Gly	Arg	Gln	Ala	Ser	Leu	Lys	Cys	Glu	Ala	Ser	Ala		
		195					200					205					
Val	Pro	Ala	Pro	Asp	Phe	Glu	Trp	Tyr	Arg	Asp	Asp	Thr	Arg	Ile	Asn		
		210				215					220						
Ser	Ala	Asn	Gly	Leu	Glu	Ile	Lys	Ser	Thr	Glu	Gly	Gln	Ser	Ser	Leu		
		225			230					235					240		
Thr	Val	Thr	Asn	Val	Thr	Glu	Glu	His	Tyr	Gly	Asn	Tyr	Thr	Cys	Val		
				245				250						255			
Ala	Ala	Asn	Lys	Leu	Gly	Val	Thr	Asn	Ala	Ser	Leu	Val	Leu	Phe	Lys		
			260					265					270				
Arg	Val	Leu	Pro	Thr	Ile	Pro	His	Pro	Ile	Gln	Glu	Ile	Gly	Thr	Thr		
		275					280					285					
Val	His	Phe	Lys	Gln	Lys	Gly	Pro	Gly	Ser	Val	Arg	Gly	Ile	Asn	Gly		
		290				295					300						

5076

Ser Ile Ser Leu Ala Val Pro Leu Trp Leu Leu Ala Ala Ser Leu Leu
 305 310 315 320

Cys Leu Leu Ser Lys Cys
 325

<210> 5785

<211> 217

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (213)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5785

Pro Thr Arg Pro Ala Glu Lys Asp Pro Gly Arg Ser Ala Pro Gly Ala
 1 5 10 15

Ala Ser Ala Ala Ala Ala Leu Lys Gln Leu Gly Asp Ser Pro Ala Glu
 20 25 30

Asp Lys Ser Ser Phe Lys Pro Tyr Ser Lys Gly Ser Gly Gly Gly Asp
 35 40 45

Ser Arg Lys Asp Ser Gly Ser Ser Ser Val Ser Ser Thr Ser Ser Ser
 50 55 60

Ser Ser Ser Ser Pro Gly Asp Lys Ala Gly Phe Xaa Val Pro Ser Ala
 65 70 75 80

Ala Cys Pro Pro Phe Pro Pro His Gly Ala Pro Val Ser Ala Ser Ser

5077

				85				90				95				
Ser	Ser	Ser	Ser	Pro	Gly	Gly	Ser	Arg	Gly	Gly	Ser	Pro	His	His	Ser	
100				105				110								
Asp	Cys	Lys	Asn	Gly	Gly	Gly	Val	Gly	Gly	Gly	Glu	Leu	Asp	Lys	Lys	
115				120				125								
Asp	Gln	Glu	Pro	Lys	Pro	Ser	Pro	Glu	Pro	Ala	Ala	Val	Ser	Arg	Gly	
130				135				140								
Gly	Gly	Gly	Glu	Pro	Gly	Ala	His	Gly	Gly	Ala	Glu	Ser	Gly	Ala	Ser	
145				150				155				160				
Gly	Arg	Lys	Ser	Glu	Pro	Pro	Ser	Ala	Leu	Val	Gly	Ala	Gly	His	Val	
165				170				175								
Ala	Pro	Val	Ser	Pro	Thr	Ser	Arg	Ala	Thr	Arg	Cys	Ser	Arg	Xaa	Arg	
180				185				190								
Leu	Gln	His	Trp	Leu	Pro	Arg	Leu	His	Arg	Gly	Arg	Leu	Arg	Arg	Xaa	
195				200				205								
Pro	Val	Leu	Ile	Xaa	Ala	Trp	Pro	Gly								
210				215												

<210> 5786

<211> 69

<212> PRT

<213> Homo sapiens

<400> 5786

Pro Gln Lys Lys Tyr Phe Met Trp Val Phe Cys Phe Ser Leu Leu Asp
1 5 10 15

Phe Met Asp Glu Gly Ile Trp Leu Thr Phe Tyr Phe Leu Met Glu Gln
20 25 30

Pro Val Phe Val Asn Tyr Ser Leu Val Asn Cys Glu Ile Leu Asn Ser
35 40 45

Leu Pro Ala Ile Leu Val Leu Val Ser Gly Gln Ile Tyr Ala Val Val
50 55 60

Leu Met Arg Leu Val
65

5078

<210> 5787

<211> 145

<212> PRT

<213> Homo sapiens

<400> 5787

```

His Cys Ser Glu Gly His Ala Lys Ser Arg His Arg Ser Trp Gln Gln
 1              5              10              15

Glu Gly Asp Arg Ala Ser Pro Arg His Thr Ser Pro Gly Gly Asp Ser
      20              25              30

Gly Lys Glu Pro Arg Thr Gly Lys Asp Trp Val Gly Glu Gly Val Arg
      35              40              45

Gly Leu Val Val Thr Gln Ser Trp Arg Gly Ala Lys Ser Thr Gly Gly
      50              55              60

Tyr Pro Leu Ala Ala Ser Ala Leu Ala Val Cys Pro Phe Met Ser Gln
      65              70              75              80

Thr Ala Thr Thr Met Tyr Leu Gln Trp Gly Cys Arg Asp Gly Gly Asp
      85              90              95

Ser Ser Leu Thr Pro Gln Glu Leu Pro Gly Pro Lys Glu Glu Asn Ala
      100             105             110

Ala Ser Phe Gln Ser Gly Leu His Pro Leu Ser Gly Ser Leu Ser Ala
      115             120             125

Ser Cys Asn Ser Gly Cys Phe Ser Arg Leu Ser Ser Asn Ser Ala Pro
      130             135             140

Pro
145

```

<210> 5788

<211> 113

<212> PRT

<213> Homo sapiens

<400> 5788

```

Leu Arg Arg Pro Phe Leu Met Leu Leu Leu Asp Leu Met Ser Ser Pro
 1              5              10              15

Ser Pro Gln Leu Leu Val Ala Ala Ala Gln Gln Thr Leu Gly Met Gly
      20              25              30

Lys Arg Arg Ser Pro Pro Gln Ala Ile Cys Leu His Leu Ala Gly Glu

```

5079

35 40 45
 Val Leu Ala Val Ala Arg Gly Leu Lys Pro Ala Val Leu Tyr Asp Cys
 50 55 60
 Asn Cys Ala Gly Ala Ser Glu Leu Gln Ser Tyr Leu Glu Glu Leu Lys
 65 70 75 80
 Gly Leu Gly Phe Leu Thr Phe Gly Leu His Ile Leu Glu Ile Gly Glu
 85 90 95
 Asn Ser Leu Ile Val Ser Pro Glu His Val Cys Gln His Leu Glu Gln
 100 105 110
 Val

<210> 5789
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 5789
 Lys Phe Ser Gln Ala Trp Trp His Met Pro Ile Val Pro Ala Ile Trp
 1 5 10 15
 Val Ala Lys Val Gly Glu Leu Leu Glu Pro Gly Arg Ser Arg Leu Gln
 20 25 30

<210> 5790
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 5790
 Val Tyr Lys Met Phe Ser Met Arg Asn Gln Glu Thr Tyr Thr Gly Leu
 1 5 10 15
 Thr Val Val Ser Tyr Met Ser Pro Gln Phe Gln Cys Ala Cys Ser Leu
 20 25 30
 Thr Ser Pro Phe Pro Asn Pro Ser Leu Leu Gly Cys Cys Phe Lys Val
 35 40 45

5080

Cys Pro Ser Pro Asn Leu Asp Phe Tyr Tyr Arg Ser Lys Ala Leu Ser
 50 55 60

Ile Leu Tyr
 65

<210> 5791

<211> 77

<212> PRT

<213> Homo sapiens

<400> 5791

Trp Leu Leu Cys Pro Val Arg Val Phe Ser Ser Leu Thr Trp Val His
 1 5 10 15

Phe Leu Met Ala His Met Lys Phe Gly Ser Tyr Gly Leu Thr Leu Ala
 20 25 30

Met Val Leu Ser Tyr Gly Glu Gln His Gln Arg Pro Val Thr Cys Lys
 35 40 45

Leu Lys Ile Gln Cys Gln Gly Pro Ser Pro Ala Pro Leu Ile Glu Asn
 50 55 60

Leu Leu Ala Ile Cys Ile Phe Arg Cys Ser Arg Leu Val
 65 70 75

<210> 5792

<211> 120

<212> PRT

<213> Homo sapiens

<400> 5792

Tyr Val Tyr Leu Ile Ile Leu Pro Leu Ala Lys Cys Tyr Val Cys Lys
 1 5 10 15

Met Trp His Leu Leu Val Phe Ile Val Cys Val Phe Phe Val Tyr Tyr
 20 25 30

Thr Leu Gly Asn Phe Val Leu Pro Lys Lys Lys Lys Lys Arg Lys Cys
 35 40 45

Asn Val Arg His Thr Arg Lys Ala Asn Gln Cys Cys Lys Leu Lys Val
 50 55 60

Gln Phe Gln Arg Ser Leu Pro Thr Ala Gly Phe Phe Leu Tyr Phe Lys
 65 70 75 80

5081

Asn Ile Met Leu His Ile Ile Ala Ile Phe Ile Phe Trp Gly Phe Ala
 85 90 95

Thr Leu Ile Gln Trp Asn Gln Trp Lys Cys His Pro Ala Thr Glu Leu
 100 105 110

Pro Leu Leu Tyr Leu Lys Ser Phe
 115 120

<210> 5793

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5793

Leu Leu Gly Ser Cys Leu Gln Glu Ala Met Thr Leu Asn Ser Glu Pro
 1 5 10 15

Tyr Ser Val Leu Thr Ser Gly Ser His Val Phe Leu Cys Gln Val Ile
 20 25 30

Lys Tyr Leu Val Leu Val Phe Cys Leu Xaa Pro Lys Leu Pro Leu Trp
 35 40 45

Val His Arg Arg Leu Gly Ser Ile Val Arg Met Ala Ile Arg Glu Tyr
 50 55 60

Lys Xaa Gly Phe Ser Arg Ala Trp Glu Xaa Ile Leu Glu Pro Arg Arg

65						70						75						80
Ala	Xaa	Pro	Ala	Leu	Arg	Ser	Phe	Gly	Val	Glu	Met	Gln	Pro	Trp	Glu			
				85					90					95				
Ile	Trp	Gly	Val	Ser	Arg	Pro	Val											
				100														

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Asp Leu Lys Arg Lys Ser Lys Ser Phe Tyr Tyr Asp Xaa Ile Pro Val
1 5 10 15

Glu Tyr Leu Lys Gly Thr Pro His Leu Asn Asn Gln Cys Lys Tyr Phe
20 25 30

Leu Ser Lys Leu
35

<213> Homo sapiens

Ile Ala Arg Leu Val Gly Phe Ala Thr Cys Gly Ser Pro Arg Gly Ser
1 5 10 15

Lys Asn Gly Gly Arg Arg Gly Gly Gly Gly Pro Gly Arg Glu Trp Val
20 25 30

Glu Leu Glu Pro Gln Lys Ser Ala Glu Leu Arg Gly Arg Ala Gly Arg
35 40 45

Lys Gly Gly Gly Ala Ala Gly Ala Arg Gly His Pro Ala Ala Gly Cys
50 55 60

Ser Asp Arg Gly Lys Cys Leu Glu Asn Cys Gly Leu Arg Cys Leu Tyr

5083

65		70		75		80									
Asp	Ala	Val	Leu	Leu	Glu	Pro	Trp	Arg	Lys	Met	Glu	Leu	Val	Leu	Gln
			85						90					95	

<210> 5796

<211> 220

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5796

Phe	Gly	Gly	Ala	Tyr	Asp	Gly	Lys	Tyr	Glu	Lys	Thr	Leu	Tyr	Gly	His
1				5					10					15	

Asn	Leu	Glu	Ile	Ser	Asp	Val	Ala	Trp	Xaa	Ser	Asp	Ser	Xaa	Arg	Leu
		20						25					30		

Xaa	Ser	Ala	Xaa	Xaa	Asp	Lys	Thr	Leu	Lys	Leu	Trp	Asp	Val	Arg	Ser
		35					40					45			

Gly	Lys	Cys	Leu	Lys	Thr	Leu	Lys	Gly	His	Ser	Asn	Tyr	Val	Phe	Cys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

50					55					60					
Cys 65	Asn	Phe	Asn	Pro	Pro 70	Ser	Asn	Leu	Ile	Ile 75	Ser	Gly	Ser	Phe	Asp 80
Glu	Thr	Val	Lys	Ile 85	Trp	Glu	Val	Lys	Thr	Gly 90	Lys	Cys	Leu	Lys 95	Thr
Leu	Ser	Ala	His 100	Ser	Asp	Pro	Val	Ser	Ala	Val	His	Phe	Asn	Cys	Ser
Gly	Ser	Leu	Ile 115	Val	Ser	Gly	Ser	Tyr	Asp	Gly	Leu	Cys	Arg	Ile	Trp
Asp 130	Ala	Ala	Ser	Gly	Gln	Cys 135	Leu	Lys	Thr	Leu	Val	Asp	Asp	Asp	Asn
Pro 145	Pro	Val	Ser	Phe	Val 150	Lys	Phe	Ser	Pro	Asn	Gly	Lys	Tyr	Ile	Leu 160
Thr	Ala	Thr	Leu	Asp 165	Asn	Thr	Leu	Lys	Leu	Trp	Asp	Tyr	Ser	Arg	Gly
Arg	Cys	Leu	Lys 180	Thr	Tyr	Thr	Gly	His	Lys	Asn	Glu	Lys	Tyr	Cys	Ile
Phe	Ala	Asn	Phe	Ser	Val	Thr	Gly	Gly	Lys	Trp	Ile	Val	Ser	Gly	Ser
Glu	Asp	Asn	Arg	Val	Tyr	Ile	Trp	Glu	Pro	Ser	Asp				

<221> SITE

5085

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5797

Asp Pro Arg Val Arg Thr Arg Xaa Pro Asn Met Tyr Gln Val Val Leu
 1 5 10 15

Leu Phe Val Val Val Pro Glu Leu Gln Glu His Gln Ser Lys Pro Ser
 20 25 30

Arg Pro Ser Pro Arg Val Ala Asp Asn Pro Glu Glu Gly Arg Glu Pro
 35 40 45

His Asn Asp Arg Pro Val Ser Met Ala Phe Gly Cys Gln Pro Glu His
 50 55 60

Val Tyr Ala Glu Cys Gly Lys Thr Tyr Arg Pro Pro Pro Thr Pro Lys
 65 70 75 80

Leu Phe Pro Gln Ser Thr Val Xaa Asn Thr Thr Pro Ser Phe Thr Ser
 85 90 95

Gly Thr Gln Glu Xaa Leu Phe Val Phe Leu Ile Ser Ile Ser Arg Arg
 100 105 110

Leu Phe Ser Thr Pro Leu Phe Leu Pro Pro Gln Phe Ala Ile Pro Leu
 115 120 125

Leu Ala Leu
 130

<210> 5798

<211> 239

<212> PRT

<213> Homo sapiens

<400> 5798

Gln Pro Pro Gly Thr Arg Asp Pro Ala Pro Pro Leu Ile Thr Pro Ala
 1 5 10 15

Thr Pro Gln Leu Ser Ala Ala Pro Asp Ala Met Asp Pro Ala Leu Ala
 20 25 30

Ala Gln Met Ser Glu Ala Val Ala Glu Lys Met Leu Gln Tyr Arg Arg
 35 40 45

Asp Thr Ala Gly Trp Lys Ile Cys Arg Glu Gly Asn Gly Val Ser Val
 50 55 60

5086

Ser Trp Arg Pro Ser Val Glu Phe Pro Gly Asn Leu Tyr Arg Gly Glu
 65 70 75 80
 Gly Ile Val Tyr Gly Thr Leu Glu Glu Val Trp Asp Cys Val Lys Pro
 85 90 95
 Ala Val Gly Gly Leu Arg Val Lys Trp Asp Glu Asn Val Thr Gly Phe
 100 105 110
 Glu Ile Ile Gln Ser Ile Thr Asp Thr Leu Cys Val Ser Arg Thr Ser
 115 120 125
 Thr Pro Ser Ala Ala Met Lys Leu Ile Ser Pro Arg Asp Phe Val Asp
 130 135 140
 Leu Val Leu Val Lys Arg Tyr Glu Asp Gly Thr Ile Ser Ser Asn Ala
 145 150 155 160
 Thr His Val Glu His Pro Leu Cys Pro Pro Lys Pro Gly Phe Val Arg
 165 170 175
 Gly Phe Asn His Pro Cys Gly Cys Phe Cys Glu Pro Leu Pro Gly Glu
 180 185 190
 Pro Thr Lys Thr Asn Leu Val Thr Phe Phe His Thr Asp Leu Ser Gly
 195 200 205
 Tyr Leu Pro Gln Asn Val Val Asp Ser Phe Phe Pro Arg Ser Met Thr
 210 215 220
 Arg Phe Tyr Ala Asn Leu Gln Lys Ala Val Lys Gln Phe His Glu
 225 230 235

<210> 5799

<211> 66

<212> PRT

<213> Homo sapiens

<400> 5799

Ala Tyr Thr Thr Met Thr Glu Asn Lys Arg Leu Phe Phe Glu Thr Pro
 1 5 10 15
 Ser Gln Lys Gln Asn Lys Thr Lys Lys Leu Asp Lys Cys Tyr Ile Asn
 20 25 30
 Val Trp Val Val Arg Phe Tyr Phe Glu Ser Glu Val Cys Arg Tyr Ala
 35 40 45
 Tyr Arg Phe Leu Glu Phe Thr Thr Phe Leu Phe Cys Ile Ile Asn Val

5087

50

55

60

Ile Phe

65

<210> 5800

<211> 173

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5800

Arg His Glu Asp Phe Thr Asp Thr Ala Tyr Leu Phe Lys Ile Gln Ile

1

5

10

15

Glu Ser Leu Asn Asp Lys Leu Gln Asn Ala Lys Glu Gln Leu Arg Glu

20

25

30

Lys Glu Phe Ile Met Leu Gln Asn Glu Gln Glu Ile Ser Gln Leu Lys

35

40

45

5088

Lys Glu Ile Glu Arg Thr Xaa Gln Arg Met Lys Glu Met Xaa Ser Val
 50 55 60
 Met Lys Glu Gln Glu Gln Tyr Ile Ala Thr Gln Tyr Lys Glu Ala Ile
 65 70 75 80
 Asp Leu Gly Gln Glu Leu Arg Leu Thr Arg Glu Gln Val Gln Asn Ser
 85 90 95
 His Thr Glu Leu Ala Glu Ala Arg His Gln Gln Val Gln Ala Gln Arg
 100 105 110
 Glu Ile Glu Arg Leu Ser Ser Glu Leu Glu Asp Met Lys Gln Leu Ser
 115 120 125
 Lys Glu Lys Asp Ala His Gly Asn His Leu Ala Glu Glu Leu Gly Ala
 130 135 140
 Ser Lys Gly Arg Glu Ala Tyr Leu Glu Ala Arg Met Gln Ala Glu Ile
 145 150 155 160
 Lys Lys Leu Xaa Xaa Xaa Val Xaa Ile Ser Ser Lys Lys
 165 170

<210> 5801

<211> 719

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (302)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5801

Phe Lys Val Ile Phe Leu Leu Gln Asp Gly Ile Val Asn Pro Thr Ile
 1 5 10 15
 Arg Lys Asp Leu Lys Thr Gly Pro Lys Phe Tyr Cys Cys Pro Ile Glu
 20 25 30
 Gly Cys Pro Arg Gly Pro Glu Arg Pro Phe Ser Gln Phe Ser Leu Val
 35 40 45
 Lys Gln His Phe Met Lys Met His Ala Glu Lys Lys His Lys Cys Ser
 50 55 60
 Lys Cys Ser Asn Ser Tyr Gly Thr Glu Trp Asp Leu Lys Arg His Ala

5089

65		70		75		80
Glu Asp Cys Gly Lys Thr Phe Arg Cys Thr Cys Gly Cys Pro Tyr Ala						
	85		90		95	
Ser Arg Thr Ala Leu Gln Ser His Ile Tyr Arg Thr Gly His Glu Ile						
	100		105		110	
Pro Ala Glu His Arg Asp Pro Pro Ser Lys Lys Arg Lys Met Glu Asn						
	115		120		125	
Cys Ala Gln Asn Gln Lys Leu Ser Asn Lys Thr Ile Glu Ser Leu Asn						
	130		135		140	
Asn Gln Pro Ile Pro Arg Pro Asp Thr Gln Glu Leu Glu Ala Ser Glu						
	145		150		155	160
Ile Lys Leu Glu Pro Ser Phe Glu Asp Ser Cys Gly Ser Asn Thr Asp						
	165		170		175	
Lys Gln Thr Leu Thr Thr Pro Pro Arg Tyr Pro Gln Lys Leu Leu Leu						
	180		185		190	
Pro Lys Pro Lys Val Ala Leu Val Lys Leu Pro Val Met Gln Phe Ser						
	195		200		205	
Val Met Pro Val Phe Val Pro Thr Ala Asp Ser Ser Ala Gln Pro Val						
	210		215		220	
Val Leu Gly Val Asp Gln Gly Ser Ala Thr Gly Ala Val His Leu Met						
	225		230		235	240
Pro Leu Ser Val Gly Thr Leu Ile Leu Gly Leu Asp Ser Glu Ala Cys						
	245		250		255	
Ser Leu Lys Glu Ser Leu Pro Leu Phe Lys Ile Ala Asn Pro Ile Ala						
	260		265		270	
Gly Glu Pro Ile Ser Thr Gly Val Gln Val Asn Phe Gly Lys Ser Pro						
	275		280		285	
Ser Asn Pro Leu Gln Glu Leu Gly Asn Thr Cys Gln Lys Xaa Ser Ile						
	290		295		300	
Ser Ser Ile Asn Val Gln Thr Asp Leu Ser Tyr Ala Ser Gln Asn Phe						
	305		310		315	320
Ile Pro Ser Ala Gln Trp Ala Thr Ala Asp Ser Ser Val Ser Ser Cys						
	325		330		335	
Ser Gln Thr Asp Leu Ser Phe Asp Ser Gln Val Ser Leu Pro Ile Ser						

5090

340	345	350
Val His Thr Gln Thr Phe Leu Pro Ser Ser Lys Val Thr Ser Ser Ile		
355	360	365
Ala Ala Gln Thr Asp Ala Phe Met Asp Thr Cys Phe Gln Ser Gly Gly		
370	375	380
Val Ser Arg Glu Thr Gln Thr Ser Gly Ile Glu Ser Pro Thr Asp Asp		
385	390	395 400
His Val Gln Met Asp Gln Ala Gly Met Cys Gly Asp Ile Phe Glu Ser		
	405	410 415
Val His Ser Ser Tyr Asn Val Ala Thr Gly Asn Ile Ile Ser Asn Ser		
	420	425 430
Leu Val Ala Glu Thr Val Thr His Ser Leu Leu Pro Gln Asn Glu Pro		
	435	440 445
Lys Thr Leu Asn Gln Asp Ile Glu Lys Ser Ala Pro Ile Ile Asn Phe		
	450	455 460
Ser Ala Gln Asn Ser Met Leu Pro Ser Gln Asn Met Thr Asp Asn Gln		
465	470	475 480
Thr Gln Thr Ile Asp Leu Leu Ser Asp Leu Glu Asn Ile Leu Ser Ser		
	485	490 495
Asn Leu Pro Ala Gln Thr Leu Asp His Arg Ser Leu Leu Ser Asp Thr		
	500	505 510
Asn Pro Gly Pro Asp Thr Gln Leu Pro Ser Gly Pro Ala Gln Asn Pro		
	515	520 525
Gly Ile Asp Phe Asp Ile Glu Glu Phe Phe Ser Ala Ser Asn Ile Gln		
	530	535 540
Thr Gln Thr Glu Glu Ser Glu Leu Ser Thr Met Thr Thr Glu Pro Val		
545	550	555 560
Leu Glu Ser Leu Asp Ile Glu Thr Gln Thr Asp Phe Leu Leu Ala Asp		
	565	570 575
Thr Ser Ala Gln Ser Tyr Gly Cys Arg Gly Asn Ser Asn Phe Leu Gly		
	580	585 590
Leu Glu Met Phe Asp Thr Gln Thr Gln Thr Asp Leu Asn Phe Phe Leu		
	595	600 605
Asp Ser Ser Pro His Leu Pro Leu Gly Ser Ile Leu Lys His Ser Ser		

5091

610		615		620
Phe Ser Val Ser Thr Asp Ser Ser Asp Thr Glu Thr Gln Thr Glu Gly				
625		630		635
Val Ser Thr Ala Lys Asn Ile Pro Ala Leu Glu Ser Lys Val Gln Leu				
	645		650	655
Asn Ser Thr Glu Thr Gln Thr Met Ser Ser Gly Phe Glu Thr Leu Gly				
	660		665	670
Ser Leu Phe Phe Thr Ser Asn Glu Thr Gln Thr Ala Met Asp Asp Phe				
	675		680	685
Leu Leu Ala Asp Leu Ala Trp Asn Thr Met Glu Ser Gln Phe Ser Ser				
	690		695	700
Val Glu Thr Gln Thr Ser Ala Glu Pro His Thr Val Ser Asn Phe				
705		710		715

<210> 5802

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5802

Asn Ser Xaa Met Gln Xaa Pro Glu Trp His Phe Ala Thr Leu Ser His

1

5

10

15

5092

Ala Leu Ile Ala Phe Gln Asn Glu Ser Tyr Leu Arg Gln Leu Leu Trp
 20 25 30

Val Lys Ser Xaa Leu Tyr Ser Arg Val Arg Leu Leu Gly Val Cys Leu
 35 40 45

Tyr Xaa Lys Arg Gly Gly Leu Ser
 50 55

<210> 5803

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5803

Ser Val Ala Cys Lys Glu Lys Lys Met Ala Ser Asp Ile Trp Tyr Lys
 1 5 10 15

Leu Leu Asn Arg Ile Ile Arg Ala Ser Phe Val Lys Pro Ala Phe Lys
 20 25 30

Cys Trp Thr Ala Ser Lys Ser Val Cys Phe Xaa Ser Ser Val Pro Tyr
 35 40 45

Thr Lys Lys Gln Leu Leu Pro Ser Tyr Tyr Ile Cys
 50 55 60

<210> 5804

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5804

Phe Thr Gln Tyr Gly Ala Ala Cys Phe Cys Asp Phe Lys Ile Asp Gln
 1 5 10 15

Gly Thr Phe Ala Phe Glu Glu Arg Asn Phe Leu Gly Leu Val Thr Arg
 20 25 30

Ala Val Asp Val Pro Lys Ser Lys Asp Val Cys Cys Pro Trp Val Ser
 35 40 45

5093

His Cys Arg Phe Ile Thr Trp
 50 55

<210> 5805

<211> 367

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (358)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5805

Ala Arg Gln Thr Gly Leu Glu Asp Pro Leu Arg Leu Arg Arg Ala Glu
 1 5 10 15

Ser Thr Arg Arg Val Leu Gly Leu Glu Leu Asn Lys Asp Arg Asp Val
 20 25 30

Glu Arg Ile His Gly Gly Gly Ile Asn Thr Leu Asp Ile Glu Pro Val
 35 40 45

Glu Gly Arg Tyr Met Leu Ser Gly Gly Ser Asp Gly Val Ile Val Leu
 50 55 60

Tyr Asp Leu Glu Asn Ser Ser Arg Gln Ser Tyr Tyr Thr Cys Lys Ala
 65 70 75 80

Val Cys Ser Ile Gly Arg Asp His Pro Asp Val His Arg Tyr Ser Val
 85 90 95

Glu Thr Val Gln Trp Tyr Pro His Asp Thr Gly Met Phe Thr Ser Ser
 100 105 110

Ser Phe Asp Lys Thr Leu Lys Val Trp Asp Thr Asn Thr Leu Gln Thr
 115 120 125

Ala Asp Val Phe Asn Phe Glu Glu Thr Val Tyr Ser His His Met Ser
 130 135 140

Pro Val Ser Thr Lys His Cys Leu Val Ala Val Gly Thr Arg Gly Pro
 145 150 155 160

Lys Val Gln Leu Cys Asp Leu Lys Ser Gly Ser Cys Ser His Ile Leu
 165 170 175

Gln Gly His Arg Gln Glu Ile Leu Ala Val Ser Trp Ser Pro Arg Tyr
 180 185 190

5094

```

Asp Tyr Ile Leu Ala Thr Ala Ser Ala Asp Ser Arg Val Lys Leu Trp
      195                      200                      205

Asp Val Arg Arg Ala Ser Gly Cys Leu Ile Thr Leu Asp Gln His Asn
      210                      215                      220

Gly Lys Lys Ser Gln Ala Val Glu Ser Ala Asn Thr Ala His Asn Gly
225                      230                      235                      240

Lys Val Asn Gly Leu Cys Phe Thr Ser Asp Gly Leu His Leu Leu Thr
      245                      250                      255

Val Gly Thr Asp Asn Arg Met Arg Leu Trp Asn Ser Ser Asn Gly Glu
      260                      265                      270

Asn Thr Leu Val Asn Tyr Gly Lys Val Cys Asn Asn Ser Lys Lys Gly
      275                      280                      285

Leu Lys Phe Thr Val Ser Cys Gly Cys Ser Ser Glu Phe Val Phe Val
      290                      295                      300

Pro Tyr Gly Ser Thr Ile Ala Val Tyr Thr Val Tyr Ser Gly Glu Gln
305                      310                      315                      320

Ile Thr Met Leu Lys Gly His Tyr Lys Thr Val Asp Cys Cys Val Phe
      325                      330                      335

Gln Ser Asn Phe Gln Val Leu Tyr Ser Gly Ser Arg Asp Cys Asn Ile
      340                      345                      350

Leu Ala Trp Val Pro Xaa Leu Tyr Glu Pro Val Pro Asp Asp Gly
      355                      360                      365

```

<210> 5806

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

5095

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5806

Lys	Lys	Xaa	Gly	Leu	Asn	Arg	Pro	Pro	Phe	Gly	Ala	Gln	Arg	Arg	Val
1				5					10					15	

Leu	Thr	Pro	Arg	Gly	Gly	Phe	Pro	Pro	Gly	Gly	Xaa	Lys	Ile	Phe	Ser
			20					25					30		

Pro	Pro	Pro	Gly	Gly	Gly	Phe	Pro	Gly	Lys	Pro	Pro	Pro	Lys	Thr	Gly
			35				40					45			

Ala	Arg	Xaa	Phe	Pro	Pro	Gly	Gly	Gly	Pro	Phe	Pro	Lys	Phe	Phe	Phe
	50					55					60				

Ala	Gln	Asn	Xaa	Ser	Gln	Lys	Ile
65					70		

<210> 5807

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5807

His	Gly	Val	Arg	Arg	Arg	Leu	Arg	Val	Thr	Arg	Gln	Arg	Ala	Thr	Ala
1				5					10					15	

Leu	Val	Gln	Ser	Ala	Arg	Val	Arg	Arg	Trp	Lys	Arg	Ser	Arg	Arg	Asn
			20					25					30		

Pro	Gln	Ile	Ala	Pro	Phe	Pro	Arg	Asp	Leu	Ser	Gly	Xaa	Arg	Ala	Thr
			35				40					45			

Ala	Gln	Pro	Arg	Ala	Pro	Ala	Leu	Arg	Pro	Arg	His	Thr	Pro	Gln	Ser
	50					55					60				

5096

Ser Ser Ser Gly Ser Ala Pro Thr Pro Arg Arg Asp Gln Pro Ala Arg
65 70 75 80

Gly Gly Leu Thr Ala Pro Ser Ser Gln Glu Gly Thr Gln Arg Thr Thr
85 90 95

Glu Pro His Ser Ala Pro Arg Ser Pro Leu Trp Leu Leu Ala Ser Arg
100 105 110

Pro Thr Arg Ala Ala Met Val Thr Ser Pro Pro Pro Leu
115 120 125

<210> 5808

<211> 227

<212> PRT

<213> Homo sapiens

<400> 5808

Lys Met Asp Trp Gly Thr Leu Gln Thr Ile Leu Gly Gly Val Asn Lys
1 5 10 15

His Ser Thr Ser Ile Gly Lys Ile Trp Leu Thr Val Leu Phe Ile Phe
20 25 30

Arg Ile Met Ile Leu Val Val Ala Ala Lys Glu Val Trp Gly Asp Glu
35 40 45

Gln Ala Asp Phe Val Cys Asn Thr Leu Gln Pro Gly Cys Lys Asn Val
50 55 60

Cys Tyr Asp His Tyr Phe Pro Ile Ser His Ile Arg Leu Trp Ala Leu
65 70 75 80

Gln Leu Ile Phe Val Ser Thr Pro Ala Leu Leu Val Ala Met His Val
85 90 95

Ala Tyr Arg Arg His Glu Lys Lys Arg Lys Phe Ile Lys Gly Glu Ile
100 105 110

Lys Ser Glu Phe Lys Asp Ile Glu Glu Ile Lys Thr Gln Lys Val Arg
115 120 125

Ile Glu Gly Ser Leu Trp Trp Thr Tyr Thr Ser Ser Ile Phe Phe Arg
130 135 140

Val Ile Phe Glu Ala Ala Phe Met Tyr Val Phe Tyr Val Met Tyr Asp
145 150 155 160

Gly Phe Ser Met Gln Arg Leu Val Lys Cys Asn Ala Trp Pro Cys Pro

5097

	165		170		175	
Asn Thr Val Asp Cys Phe Val Ser Arg Pro Thr Glu Lys Thr Val Phe						
	180		185		190	
Thr Val Phe Met Ile Ala Val Ser Gly Ile Cys Ile Leu Leu Asn Val						
	195		200		205	
Thr Glu Leu Cys Tyr Leu Leu Ile Arg Tyr Cys Ser Gly Lys Ser Lys						
	210		215		220	
Lys Pro Val						
225						

<210> 5809

<211> 213

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

5098

<400> 5809

Ala Thr Val Pro Ile Arg Pro Asn Phe Thr Gly Lys Ser Ser Tyr Arg
 1 5 10 15
 Val Tyr Lys Leu Pro Ile Ser Gly Glu Thr Phe Asn Arg Glu Lys Phe
 20 25 30
 Arg Ser Gln Asp Trp Glu Asn Pro Thr Glu Arg Glu Asp Asp Ser Asp
 35 40 45
 Lys Tyr Cys Lys Leu Asn Leu Gln Gln Ser Gly Ser Phe Gln Tyr Tyr
 50 55 60
 Xaa Leu Gln Gly Asn Glu Lys Xaa Gly Gly Xaa Tyr Ile Val Val Xaa
 65 70 75 80
 Pro Ile Leu Arg Val Xaa Ala Asp Asn His Val Leu Pro Leu Asp Cys
 85 90 95
 Val Thr Leu Gln Thr Phe Leu Ala Lys Cys Leu Gly Pro Phe Asp Glu
 100 105 110
 Trp Glu Ser Arg Leu Arg Val Ala Lys Glu Ser Gly Tyr Asn Met Ile
 115 120 125
 His Phe Thr Pro Leu Gln Thr Leu Gly Leu Ser Arg Ser Cys Tyr Ser
 130 135 140
 Leu Ala Asn Gln Leu Glu Leu Asn Pro Asp Phe Ser Arg Pro Asn Arg
 145 150 155 160
 Lys Tyr Thr Trp Asn Xaa Val Gly Gln Leu Val Glu Lys Leu Lys Lys
 165 170 175
 Glu Trp Ile Val Phe Cys Ile Thr Asp Val Val Tyr Asn His Thr Ala
 180 185 190
 Ala Asn Ser Asn Cys Ile Gln Glu His Pro Glu Cys Ala Tyr Ile Leu
 195 200 205
 Val Ile Ser Pro His
 210

<210> 5810

<211> 67

<212> PRT

<213> Homo sapiens

<220>

5099

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5810

Gly Val His Tyr Cys Glu Phe Ile Ile Leu Lys Val Gly Asp Ala Lys

1

5

10

15

Ser Thr Arg Leu Lys Xaa Tyr Glu Val Phe Ser Ser Phe Asn Ser Ile

20

25

30

Leu Leu Glu Lys Asn Xaa His Asn Arg Gly Ser Phe Thr Phe Pro Gln

35

40

45

Pro Ser Arg Leu Leu Tyr Cys Asn Val Gly Lys Ile Ala Tyr Asn Lys

50

55

60

Asn Cys Ser

65

<210> 5811

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (185)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5811

Val Arg Ala Gly Pro Ala Ala Ala Gly Pro Arg Pro Gly Ala Glu Arg

1

5

10

15

5100

Lys Cys Trp Ser Leu Arg Ser Leu Arg Pro Leu Gly Gly Arg Cys Ala
 20 25 30
 Trp Pro Gly Thr Ser Ala Pro Ala His Arg Pro Gly Ala Ala Glu Gly
 35 40 45
 Arg Pro Arg Gly Pro Val Pro Ala Glu Pro Arg Pro Cys Pro Leu Ala
 50 55 60
 Leu Leu Ser Gly His Tyr Leu Tyr Tyr His Tyr Gly Cys Asp Gly Leu
 65 70 75 80
 Asp Asp Arg Gly Trp Gly Cys Gly Tyr Arg Thr Leu Gln Thr Leu Cys
 85 90 95
 Ser Trp Pro Glu Gly Gln Pro Ala Gly Val Pro Gly Leu Ala Ala Val
 100 105 110
 Gln Ala Ala Leu Glu Asp Met Gly Asp Lys Pro Pro Gly Phe Arg Gly
 115 120 125
 Ser Arg Asp Trp Ile Gly Cys Val Glu Ala Ser Leu Cys Leu Ala His
 130 135 140
 Phe Gly Gly Pro Gln Gly Arg Leu Cys His Val Pro Arg Gly Val Gly
 145 150 155 160
 Leu His Gly Glu Xaa Glu Arg Leu Tyr Ser His Phe Ala Gly Gly Gly
 165 170 175
 Gly Pro Val Met Val Gly Gly Asp Xaa Asp Ala Arg Ser Lys Ala Leu
 180 185 190
 Leu Gly Xaa Cys Val Gly Ser Gly Thr Glu Ala Tyr Val Leu Val Leu
 195 200 205
 Asp Pro His Tyr Trp Gly Thr Pro Lys Ser Pro Ser Glu Leu Gln Ala
 210 215 220
 Ala Gly Trp Val Gly Trp Gln Glu Val Ser Ala Ala Phe Asp Pro Asn
 225 230 235 240
 Ser Phe Tyr Asn Leu Cys Leu Thr Ser Leu Ser Ser Gln Gln Gln Gln
 245 250 255
 Arg Thr Leu Asp
 260

5101

<211> 364
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (269)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (299)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (310)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (319)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (356)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (363)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5812
Trp Xaa Pro Arg Ala Ala Gly Ile Arg His Glu Leu Phe Gln Ala Leu

5102

1	5	10	15
Ile Asp Ile Gln Glu Phe Tyr Glu Val Thr Leu Leu Asp Asn Pro Lys	20	25	30
Cys Ile Asp Arg Ser Lys Pro Ser Glu Pro Ile Gln Pro Val Asn Thr	35	40	45
Trp Glu Ile Ser Ser Leu Pro Ser Ser Thr Val Thr Ser Glu Thr Leu	50	55	60
Pro Ser Ser Leu Ser Pro Ser Val Glu Lys Tyr Arg Tyr Gln Asp Glu	65	70	75
Asp Thr Pro Pro Gln Glu His Ile Ser Pro Gln Ile Thr Asn Glu Val	85	90	95
Ile Gly Pro Glu Leu Val His Val Ser Glu Lys Asn Leu Ser Glu Ile	100	105	110
Glu Asn Val His Gly Phe Val Ser His Ser His Ile Ser Pro Ile Lys	115	120	125
Pro Thr Glu Ala Val Leu Pro Ser Pro Pro Thr Val Pro Val Ile Pro	130	135	140
Val Leu Pro Val Pro Ala Glu Asn Thr Xaa Ile Leu Pro Thr Ile Pro	145	150	155
Gln Ala Asn Pro Pro Xaa Val Leu Val Asn Thr Asp Ser Leu Glu Thr	165	170	175
Pro Thr Tyr Val Asn Gly Thr Asp Ala Asp Tyr Glu Tyr Glu Glu Ile	180	185	190
Thr Leu Glu Arg Gly Asn Ser Gly Leu Gly Phe Ser Ile Ala Gly Gly	195	200	205
Thr Asp Asn Pro His Ile Gly Asp Asp Ser Ser Ile Phe Ile Thr Lys	210	215	220
Ile Ile Thr Gly Gly Ala Ala Ala Gln Asp Gly Arg Leu Arg Val Asn	225	230	235
Asp Cys Ile Leu Arg Val Asn Glu Val Asp Val Arg Asp Val Thr His	245	250	255
Ser Lys Ala Val Glu Ala Leu Lys Glu Ala Gly Ser Xaa Val Arg Leu	260	265	270
Tyr Val Lys Arg Arg Lys Pro Val Ser Glu Lys Ile Met Glu Ile Lys			

5103

275 280 285
 Leu Ile Lys Gly Pro Lys Gly Leu Gly Phe Xaa Ile Ala Gly Gly Val
 290 295 300
 Gly Asn Gln His Ile Xaa Gly Asp Asn Ser Ile Tyr Val Thr Xaa Ile
 305 310 315 320
 Ile Glu Gly Gly Ala Ala His Lys Asp Gly Lys Leu Gln Ile Gly Asp
 325 330 335
 Lys Leu Leu Ala Val Asn Asn Val Cys Leu Glu Glu Val Thr His Glu
 340 345 350
 Glu Ala Val Xaa Ala Leu Lys Ser Thr Ser Xaa Phe
 355 360

 <210> 5813
 <211> 277
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5813
 Gly Ser Cys Ser Ser Arg Cys Asp Ser Arg Asn Gln Arg His Leu Arg
 1 5 10 15
 Val Ser Arg Lys Pro Pro Phe Val Val Ser Arg Thr Glu Gly Tyr Ile
 20 25 30
 Gly Val Leu Ile Asp Asp Leu Thr Thr Leu Gly Thr Xaa Glu Pro Tyr
 35 40 45
 Arg Met Phe Thr Ser Arg Val Glu Phe Arg Leu Ser Leu Arg Pro Asp
 50 55 60
 Asn Ala Asp Ser Arg Leu Thr Leu Arg Gly Tyr Lys Asp Ala Gly Cys
 65 70 75 80
 Val Ser Gln Gln Arg Tyr Glu Arg Ala Cys Trp Met Lys Ser Ser Leu
 85 90 95
 Glu Glu Gly Ile Ser Val Leu Lys Ser Ile Glu Phe Leu Ser Ser Lys
 100 105 110

5104

Trp Lys Lys Leu Ile Pro Glu Ala Ser Ile Ser Thr Ser Arg Ser Leu
 115 120 125
 Pro Val Arg Ala Leu Asp Val Leu Lys Tyr Glu Glu Val Asp Met Asp
 130 135 140
 Ser Leu Ala Lys Ala Val Pro Glu Pro Leu Lys Lys Tyr Thr Lys Cys
 145 150 155 160
 Arg Glu Leu Ala Glu Arg Leu Lys Ile Glu Ala Thr Tyr Glu Ser Val
 165 170 175
 Leu Phe His Gln Leu Gln Glu Ile Lys Gly Val Gln Gln Asp Glu Ala
 180 185 190
 Leu Gln Leu Pro Lys Asp Leu Asp Tyr Leu Thr Ile Arg Asp Val Ser
 195 200 205
 Leu Ser His Glu Val Arg Glu Lys Leu His Phe Ser Arg Pro Gln Thr
 210 215 220
 Ile Gly Ala Ala Ser Arg Ile Pro Gly Val Thr Pro Ala Ala Ile Ile
 225 230 235 240
 Asn Leu Leu Arg Phe Val Lys Thr Thr Gln Arg Arg Gln Ser Ala Met
 245 250 255
 Asn Glu Ser Ser Lys Thr Asp Gln Tyr Leu Cys Asp Ala Asp Arg Leu
 260 265 270
 Gln Glu Arg Glu Leu
 275

<210> 5814

<211> 36

<212> PRT

<213> Homo sapiens

<400> 5814

Ile Phe His Arg Val Leu Leu Cys Asp Leu Asn Phe Ser Leu Gly Pro
 1 5 10 15
 Ala Ser Asp Ile Val Gly Gly Leu Ser Trp Phe Gln Glu Ile Arg Leu
 20 25 30
 Ala Phe Ser Ser
 35

5105

<210> 5815

<211> 160

<212> PRT

<213> Homo sapiens

<400> 5815

Ala Gly Ser Gln Glu Ser Ala Lys Ala Leu Met Ile Arg Glu Lys Tyr
 1 5 10 15

Ala Gly Ser Pro Thr His Leu Pro Ala Asp His Ile Pro Val Pro Gly
 20 25 30

Ser Ser Arg Ala Asp Thr Ala Pro Pro Glu Glu Gly Leu Pro Asp Phe
 35 40 45

His Pro Pro Pro Leu Pro Gln Glu Asp Pro Tyr Cys Leu Asp Asp Ala
 50 55 60

Pro Pro Asn Leu Asp Tyr Leu Val His Met Gln Gly Gly Ile Leu Phe
 65 70 75 80

Val Tyr Asp Asn Lys Lys Met Leu Glu His Gln Glu Pro His Ser Leu
 85 90 95

Pro Tyr Pro Asp Leu Glu Thr Tyr Thr Val Asp Met Ser His Ile Leu
 100 105 110

Ala Leu Ile Thr Asp Gly Pro Thr Lys Thr Tyr Cys His Arg Arg Leu
 115 120 125

Asn Phe Leu Glu Ser Lys Phe Ser Leu His Glu Met Leu Asn Glu Met
 130 135 140

Ser Glu Phe Lys Glu Leu Lys Ser Asn Pro His Arg Asp Phe Tyr Asn
 145 150 155 160

<210> 5816

<211> 71

<212> PRT

<213> Homo sapiens

<400> 5816

Lys Thr Lys Tyr Leu Leu Trp Asp Lys Ile Leu Tyr Ala Tyr Leu Glu
 1 5 10 15

5106

Tyr Trp Glu Asp Gly Lys Glu Tyr Lys Glu Lys Asn Asn Cys Thr Pro
20 25 30

His Ser Arg His Asn Leu Leu Phe Thr Ser Leu Gly Cys Ile Ser Ile
35 40 45

Pro Thr Arg Trp Asn His Leu Tyr Val Tyr Leu Ile Arg Ile Met Leu
50 55 60

His Thr Val Leu Phe Pro Ser
65 70

<210> 5817

<211> 23

<212> PRT

<213> Homo sapiens

<400> 5817

Lys Lys Ala Trp Glu Pro Val Cys Phe Glu Arg Thr Asp Asp Ile Gly
1 5 10 15

Arg Ala Leu Glu Val Pro Gly
20

<210> 5818

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

5107

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5818

```

Pro His Pro Thr Xaa Trp Xaa Gln Leu Glu Glu Xaa Cys Arg Arg Leu
 1           5           10           15

Ala Glu Val Ser Lys Pro Pro Lys Gln Arg Cys Cys Val Ala Ser Gln
          20           25           30

Gln Arg Asp Arg Asn His Ser Ala Thr Val Gln Thr Gly Ala Thr Xaa
          35           40           45

Phe Ser Asn Pro Ser Leu Ala Pro Glu Asp His Lys Glu Pro Lys Lys
          50           55           60

Leu Ala Gly Val His Ala Leu Gln Ala Ser Glu Leu Val Val Thr Tyr
          65           70           75           80

Phe Phe Cys Gly Glu Glu Ile Pro Tyr Arg Arg Met Leu Lys Ala Gln
          85           90           95

Ser Leu Thr Leu Gly His Phe Lys Glu Gln Leu Ser Lys Lys Gly Asn
          100          105          110

Tyr Arg Tyr Tyr Phe Lys Lys Ala Ser Asp Glu Phe Ala Cys Gly Ala
          115          120          125

Val Phe Glu Glu Ile Trp Glu Asp Glu Thr Val Leu Pro Met Tyr Glu
          130          135          140

Gly Arg Ile Leu Gly Lys Val Glu Arg Ile Asp
          145          150          155

```

<210> 5819

<211> 317

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5108

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (245)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5819

Met	Asn	Lys	Leu	Asn	Glu	Leu	Glu	Lys	Ile	Cys	Glu	Ile	Leu	Gln	Ala
1				5					10					15	

Glu	Lys	Tyr	Xaa	Leu	Val	Thr	Glu	Leu	Asn	Asp	Ser	Arg	Ser	Glu	Cys
			20					25					30		

Ile	Thr	Ala	Thr	Arg	Lys	Met	Ala	Glu	Glu	Val	Gly	Lys	Leu	Leu	Asn
		35					40					45			

Glu	Val	Lys	Ile	Leu	Asn	Asp	Asp	Ser	Gly	Leu	Leu	His	Gly	Glu	Leu
	50					55					60				

Val	Glu	Asp	Ile	Pro	Gly	Gly	Glu	Phe	Gly	Glu	Gln	Pro	Asn	Glu	Gln
65					70					75					80

His	Pro	Val	Ser	Leu	Ala	Pro	Leu	Asp	Glu	Ser	Asn	Ser	Tyr	Glu	His
				85					90					95	

Leu	Thr	Leu	Ser	Asp	Lys	Glu	Val	Gln	Met	His	Phe	Ala	Glu	Leu	Gln
			100					105					110		

Xaa	Lys	Phe	Xaa	Ser	Leu	Gln	Ser	Glu	His	Lys	Ile	Leu	His	Asp	Gln
		115					120					125			

His	Cys	Gln	Met	Ser	Ser	Lys	Met	Ser	Glu	Leu	Gln	Thr	Tyr	Val	Asp
	130					135					140				

Ser	Leu	Lys	Ala	Glu	Asn	Leu	Val	Leu	Ser	Thr	Asn	Leu	Arg	Asn	Phe
145					150					155					160

Gln	Gly	Asp	Leu	Val	Lys	Glu	Met	Gln	Leu	Gly	Leu	Glu	Glu	Gly	Leu
			165					170						175	

Val	Pro	Ser	Leu	Ser	Ser	Ser	Cys	Val	Pro	Asp	Ser	Ser	Ser	Leu	Ser
			180					185					190		

Ser	Leu	Gly	Asp	Ser	Ser	Phe	Tyr	Arg	Ala	Leu	Leu	Glu	Gln	Thr	Gly
		195					200					205			

Asp	Met	Ser	Leu	Leu	Ser	Asn	Leu	Glu	Gly	Ala	Val	Ser	Ala	Asn	Gln
	210					215					220				

5109

Cys Ser Val Asp Glu Val Phe Cys Ser Ser Leu Gln Glu Glu Asn Leu
 225 230 235 240

Thr Arg Lys Glu Xaa Pro Ser Ala Pro Ala Lys Gly Val Glu Glu Leu
 245 250 255

Glu Ser Leu Cys Glu Val Tyr Arg Gln Ser Leu Glu Lys Leu Glu Glu
 260 265 270

Lys Met Glu Ser Gln Gly Ile Met Lys Asn Lys Glu Ile Gln Glu Leu
 275 280 285

Glu Gln Leu Leu Ser Ser Glu Gly Lys Ser Leu Thr Ala Leu Gly Ala
 290 295 300

Val Phe Val Arg His Asp Ser Gly Thr Glu Leu Thr Ala
 305 310 315

<210> 5820

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5820

Pro Asn Trp Glu Lys Lys Cys Ile Arg Leu Ala Leu Xaa Thr Arg Glu
 1 5 10 15

Gln His Ile Arg Arg Asp Lys Ala Thr Ser Asn Ile Cys Thr Ala Gln
 20 25 30

Ala Leu Leu Ala Asn Met Ala Ala Met Phe Ala Ile Tyr His Gly Ser
 35 40 45

His Gly Leu Xaa His Ile Ala
 50 55

5110

<210> 5821

<211> 70

<212> PRT

<213> Homo sapiens

<400> 5821

```

Asn Gln Asn Lys Gly Gln Tyr Arg Lys Tyr His Gly Val Tyr Asn Lys
 1              5              10              15

Leu Asn Phe Trp Leu Pro Ile Gln Thr Gly Leu Asn Gly Met Phe Ile
          20              25              30

Leu Asn Lys Glu Phe Ala Met Asp Lys Ile Tyr Leu Ala Tyr Cys Glu
          35              40              45

Leu Glu Val Arg Pro Ala Val Thr Leu Val Phe Pro His Ser Met Glu
          50              55              60

Glu Glu Glu Arg Lys Thr
65              70

```

<210> 5822

<211> 465

<212> PRT

<213> Homo sapiens

<400> 5822

```

Ala Gly Glu Lys Leu Leu Lys Asp Cys Val Leu Leu His Leu Pro Cys
 1              5              10              15

Ala Arg Ser Pro Pro Val Ser His Ser Val Thr Met Val Gln Trp Lys
          20              25              30

Arg Leu Cys Gln Leu His Tyr Leu Trp Ala Leu Gly Cys Tyr Met Leu
          35              40              45

Leu Ala Thr Val Ala Leu Lys Leu Ser Phe Arg Leu Lys Cys Asp Ser
          50              55              60

Asp His Leu Gly Leu Glu Ser Arg Glu Ser Gln Ser Gln Tyr Cys Arg
65              70              75              80

Asn Ile Leu Tyr Asn Phe Leu Lys Leu Pro Ala Lys Arg Ser Ile Asn
          85              90              95

Cys Ser Gly Val Thr Arg Gly Asp Gln Glu Ala Val Leu Gln Ala Ile
          100              105              110

Leu Asn Asn Leu Glu Val Lys Lys Lys Arg Glu Pro Phe Thr Asp Thr

```

5111

115		120		125	
His Tyr Leu Ser Leu Thr Arg Asp Cys Glu His Phe Lys Ala Glu Arg					
130		135		140	
Lys Phe Ile Gln Phe Pro Leu Ser Lys Glu Glu Val Glu Phe Pro Ile					
145		150		155	160
Ala Tyr Ser Met Val Ile His Glu Lys Ile Glu Asn Phe Glu Arg Leu					
	165		170		175
Leu Arg Ala Val Tyr Ala Pro Gln Asn Ile Tyr Cys Val His Val Asp					
	180		185		190
Glu Lys Ser Pro Glu Thr Phe Lys Glu Ala Val Lys Ala Ile Ile Ser					
	195		200		205
Cys Phe Pro Asn Val Phe Ile Ala Ser Lys Leu Val Arg Val Val Tyr					
	210		215		220
Ala Ser Trp Ser Arg Val Gln Ala Asp Leu Asn Cys Met Glu Asp Leu					
	225		230		235
Leu Gln Ser Ser Val Pro Trp Lys Tyr Phe Leu Asn Thr Cys Gly Thr					
	245		250		255
Asp Phe Pro Ile Lys Ser Asn Ala Glu Met Val Gln Ala Leu Lys Met					
	260		265		270
Leu Asn Gly Arg Asn Ser Met Glu Ser Glu Val Pro Pro Lys His Lys					
	275		280		285
Glu Thr Arg Trp Lys Tyr His Phe Glu Val Val Arg Asp Thr Leu His					
	290		295		300
Leu Thr Asn Lys Lys Lys Asp Pro Pro Pro Tyr Asn Leu Thr Met Phe					
	305		310		315
Thr Gly Asn Ala Tyr Ile Val Ala Ser Arg Asp Phe Val Gln His Val					
	325		330		335
Leu Lys Asn Pro Lys Ser Gln Gln Leu Ile Glu Trp Val Lys Asp Thr					
	340		345		350
Tyr Ser Pro Asp Glu His Leu Trp Ala Thr Leu Gln Arg Ala Arg Trp					
	355		360		365
Met Pro Gly Ser Val Pro Asn His Pro Lys Tyr Asp Ile Ser Asp Met					
	370		375		380
Thr Ser Ile Ala Arg Leu Val Lys Trp Gln Gly His Glu Gly Asp Ile					

5112

385 390 395 400
 Asp Lys Gly Ala Pro Tyr Ala Pro Cys Ser Gly Ile His Gln Arg Ala
 405 410 415
 Ile Cys Val Tyr Gly Ala Gly Asp Leu Asn Trp Met Leu Gln Asn His
 420 425 430
 His Leu Leu Ala Asn Lys Phe Asp Pro Lys Val Asp Asp Asn Ala Leu
 435 440 445
 Gln Cys Leu Glu Glu Tyr Leu Arg Tyr Lys Ala Ile Tyr Gly Thr Glu
 450 455 460
 Leu
 465

<210> 5823

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5823

His Gln Pro His Gly Ser Pro Glu Leu Cys Trp Lys Val Glu Thr Gly
 1 5 10 15

Arg Glu Ala Ser His Gly Ser Xaa Glu Pro Asp Pro Thr Asn Gln Leu
 20 25 30

Ile Phe Lys Arg Gln Asp Gly Gly Arg Asp His Ser Arg Glu Pro Cys
 35 40 45

Ser Leu Phe Leu Pro Val Ala Lys Ser Gly Ala Arg Lys Ser Leu Ser
 50 55 60

Val

65

<210> 5824

<211> 101

<212> PRT

<213> Homo sapiens

5113

<400> 5824

```

Asp Leu Gly Leu Glu Gly Trp Gly Met Gly Arg Glu Gly His Ser Leu
 1             5             10             15

Leu Leu His Glu Ser Asp Ile Ser Glu Thr Glu Gln Leu Pro Asp Ala
      20             25             30

Trp Val Arg Asn Pro Arg Pro His Leu Leu Arg Thr Gly Ser Ser Glu
      35             40             45

Ser Thr Leu Arg Glu Lys Gly Glu Asn Ile Thr Ser Val Asp Ser Pro
      50             55             60

Ala Thr Thr Ala Leu Glu Glu Lys Ala Ala Ala Thr Ser Gln Arg Gly
      65             70             75             80

Val Lys Asp Pro Cys Pro Arg Asn Arg Ala Ala Pro Pro Ala Leu Thr
      85             90             95

Pro Leu Thr Phe Ser
      100

```

<210> 5825

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5825

```

His Val Ser Phe Ala Leu Leu Val Phe Tyr Val Ile Ser Phe Asn Cys
 1             5             10             15

Leu Leu His Leu Thr Val Tyr Ile Ile Gln Gln Phe Thr Ser Leu Asn
      20             25             30

Ser Arg Trp Lys Asn Arg Cys Gln Ser Met Lys Ile Phe Pro Ser Ile
      35             40             45

Ser Lys Tyr Phe Ser Arg Ile Tyr Phe Ser Lys Gln Thr Ile
      50             55             60

```

<210> 5826

<211> 152

<212> PRT

<213> Homo sapiens

<220>

5114

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5826

Val Leu Glu Leu Asp Gln Glu Glu Leu Gln Leu Gly Arg Gly Gly Ala
1 5 10 15

Pro Arg Arg Ala Arg Ala Ala Arg Arg Gly Val Leu Leu Leu Ala His
20 25 30

Arg Glu Pro Pro Pro Ala Arg Ala Glu Ala Pro Ser Arg Gln Ala Ala
35 40 45

Cys Leu Pro Pro Leu Ser Ile Ser Pro Glu Ser Gln Pro Gly Ala Pro
50 55 60

Gly	Pro	Leu	Pro	Leu	Ser	Gly	Trp	Arg	Ser	Ser	Arg	Pro	Leu	Pro	Val
65					70					75					80

Ser Leu Leu Leu Ser Leu Gly Ser Gln Pro Pro Leu Ser Phe Ser Trp
85 90 95

Thr	Gly	Ser	His	Pro	Leu	Arg	Ser	Pro	Ser	Phe	Ser	Ser	Gly	Ser	Leu
			100					105					110		

Pro	Leu	Pro	Leu	Ala	His	Lys	Pro	Arg	Ser	Pro	Lys	Leu	Leu	Ser	His
		115					120					125			

Phe Pro Xaa Pro Lys Val Pro Ala Phe Leu Leu Pro Phe Leu Cys Thr
130 135 140

Ile Pro Ile Leu Pro Phe Leu Tyr
145 150

<210> 5827

<211> 86

<212> PRT

<213> Homo sapiens

<400> 5827

Pro Ile Glu Ile Glu Arg Cys Glu Pro Val Arg Ser Lys Leu Glu Glu
1 5 10 15

Val Gln Arg Lys Leu Gly Phe Ala Leu Ser Asp Ile Ser Val Val Ser
20 25 30

Asn Tyr Ser Ser Glu Trp Glu Leu Asp Pro Val Lys Asp Val Leu Ile
35 40 45

5115

Leu Ser Ala Leu Arg Arg Met Leu Trp Ala Ala Asp Asp Phe Leu Glu
 50 55 60

Asp Leu Pro Phe Glu Gln Ile Gly Asn Leu Arg Glu Glu Ile Ile Asn
 65 70 75 80

Cys Ala Gln Gly Lys Lys
 85

<210> 5828

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5828

Ala Thr Val His Pro Ala Cys Gln Ile Phe Pro His Tyr Thr Pro Ser
 1 5 10 15

Val Ala Tyr Pro Trp Ser Pro Glu Ala His Pro Leu Ile Cys Gly Pro
 20 25 30

Pro Gly Leu Asp Lys Arg Leu Leu Pro Glu Thr Pro Gly Pro Cys Tyr
 35 40 45

Ser Asn Ser Gln Pro Val Trp Leu Cys Leu Xaa Pro Arg Gln Pro Leu
 50 55 60

Glu Pro His Pro Pro Gly Glu Gly Pro Ser Glu Trp Ser Ser Asp Thr
 65 70 75 80

Ala Glu Gly Arg Pro Cys Pro Tyr Pro His Cys Gln Val Cys Arg Pro
 85 90 95

Ser Leu Ala Gln Arg Arg Asn Ser Arg Ser Cys Val Asn Arg Leu Cys
 100 105 110

Glu Met Phe Arg Pro Ser Ser Asn Gln Glu Cys Ala Pro Asp Val Phe
 115 120 125

Gly Pro Tyr Leu Ala Gln Ser Pro Ala Pro Gly Lys Gly Lys Asp His
 130 135 140

Ser Lys His His Ser Phe Cys Arg Thr Ser

5116

145

150

<210> 5829

<211> 53

<212> PRT

<213> Homo sapiens

<400> 5829

Ile Phe Phe Leu Ile Ala Leu Leu Val Lys Ser Glu Lys Lys Asn Gln
1 5 10 15
Arg Arg Phe Glu Thr Gly Ala Leu Cys Ala Arg Met Thr Lys Cys Thr
20 25 30
Ser Phe Arg Val Cys Met Leu Val Asn Ser Gln Ile Tyr Leu Tyr Phe
35 40 45
Phe Ala Ser Ile Glu
50

<210> 5830

<211> 75

<212> PRT

<213> Homo sapiens

<400> 5830

Lys Asn Phe Glu Ser Thr Tyr Asn Leu Glu Pro Pro Arg Ser Thr Phe
1 5 10 15
Glu Leu Ser Tyr Leu Ser Gly Gln Lys Gln Cys Gly Ser Cys Met Tyr
20 25 30
Leu Ile Asp Val Ser Cys Leu Pro Lys Met Tyr Thr Ile Arg Leu Cys
35 40 45
Pro Asp His Pro Gly His Met Phe Ser Gly Pro Pro Glu Val Ser Val
50 55 60
Ser Gly His Trp Ser Leu Arg Phe Gly Ser Glu
65 70 75

<210> 5831

<211> 356

<212> PRT

<213> Homo sapiens

5117

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5831

Ala	Leu	Leu	Ser	Trp	Glu	Met	Ser	Ala	Ala	Cys	Trp	Glu	Glu	Pro	Trp
1				5					10					15	

Gly	Leu	Pro	Gly	Gly	Phe	Ala	Lys	Xaa	Val	Leu	Val	Thr	Gly	Gly	Ala
			20					25					30		

Gly	Phe	Ile	Ala	Ser	His	Met	Ile	Val	Ser	Leu	Val	Glu	Asp	Tyr	Pro
		35					40					45			

Asn	Tyr	Met	Ile	Ile	Asn	Leu	Asp	Lys	Leu	Asp	Tyr	Cys	Ala	Ser	Leu
	50					55					60				

Lys	Asn	Leu	Glu	Thr	Ile	Ser	Asn	Lys	Gln	Asn	Tyr	Lys	Phe	Ile	Gln
65					70					75					80

Gly	Asp	Ile	Cys	Asp	Ser	His	Phe	Val	Lys	Leu	Leu	Phe	Glu	Thr	Glu
				85					90					95	

Lys	Ile	Asp	Ile	Val	Leu	His	Phe	Ala	Ala	Gln	Thr	His	Val	Asp	Leu
			100					105					110		

Ser	Phe	Val	Arg	Ala	Phe	Glu	Phe	Thr	Tyr	Val	Asn	Val	Tyr	Gly	Thr
		115					120					125			

His	Val	Leu	Val	Ser	Ala	Ala	His	Glu	Ala	Arg	Val	Glu	Lys	Phe	Ile
	130					135					140				

Tyr	Val	Ser	Thr	Asp	Glu	Val	Tyr	Gly	Gly	Ser	Leu	Asp	Lys	Glu	Phe
145					150					155					160

Asp	Glu	Ser	Ser	Pro	Lys	Gln	Pro	Thr	Asn	Pro	Tyr	Ala	Ser	Ser	Lys
				165					170					175	

Ala	Ala	Ala	Glu	Cys	Phe	Val	Gln	Ser	Tyr	Trp	Glu	Gln	Tyr	Lys	Phe
			180					185					190		

Pro	Val	Val	Ile	Thr	Arg	Ser	Ser	Asn	Val	Tyr	Gly	Pro	His	Gln	Tyr
		195					200					205			

Pro	Glu	Lys	Val	Ile	Pro	Lys	Phe	Ile	Ser	Leu	Leu	Gln	His	Asn	Arg
	210					215					220				

Lys	Cys	Cys	Ile	His	Gly	Ser	Gly	Leu	Gln	Thr	Arg	Asn	Phe	Leu	Tyr
225					230					235					240

5118

Ala Thr Asp Val Val Glu Ala Phe Leu Thr Val Leu Lys Lys Gly Lys
 245 250 255

Pro Gly Glu Ile Tyr Asn Ile Gly Thr Asn Phe Glu Met Ser Val Val
 260 265 270

Gln Leu Ala Lys Glu Leu Ile Gln Leu Ile Lys Glu Thr Asn Ser Glu
 275 280 285

Ser Glu Met Glu Asn Trp Val Asp Tyr Val Asn Asp Arg Pro Thr Asn
 290 295 300

Asp Met Arg Tyr Pro Met Lys Ser Glu Lys Ile His Gly Leu Gly Trp
 305 310 315 320

Arg Pro Lys Val Pro Trp Lys Glu Gly Ile Lys Lys Thr Ile Glu Trp
 325 330 335

Tyr Arg Glu Asn Phe His Asn Trp Lys Asn Val Glu Lys Ala Leu Glu
 340 345 350

Pro Phe Pro Val
 355

<210> 5832

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5832

Ala Lys Thr Ser His Leu Glu Phe Gly Lys Ile Arg Ile Ser Gln Val
 1 5 10 15

Glu His Leu Leu Asn Ala Arg Ile Val Ser Met His Phe Lys Ser Ile
 20 25 30

Phe Asn Leu Tyr Tyr Ser Leu Ile Ile Gly Ile Met Thr Pro Glu Gln
 35 40 45

Arg Gln Leu Ser
 50

<210> 5833

<211> 55

<212> PRT

<213> Homo sapiens

5119

<400> 5833

Thr Arg Met Pro Ser Lys Ala Ala Leu Met Glu Glu Ala Lys Leu Met
1 5 10 15

Ala Ser Leu Trp His Leu Ala Ala Met Ala Phe Ile Thr Tyr Val Leu
20 25 30

Leu Ala Gly Met Ala Leu Gly Ile Gln Lys Arg Ser Val Pro Ser Pro
35 40 45

Ser Leu Thr Leu Pro Ser Leu
50 55

<210> 5834

<211> 231

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

5120

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (159)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (198)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (202)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (203)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (217)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (219)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5834

Xaa Cys Xaa Ala Xaa Ala Pro Ser Val Pro Ala Trp Gln Val Leu His
1 5 10 15

Xaa His Asn Xaa Xaa Arg Leu Val Glu Phe Ser Ala Phe Leu Glu Gln
20 25 30

Gln Arg Asp Pro Asp Ser Tyr Asn Lys His Leu Phe Val His Ile Gly
35 40 45

His Ala Asn His Ser Tyr Ser Asp Pro Leu Leu Glu Ser Val Asp Ile
50 55 60

Arg Gln Ile Tyr Asp Lys Phe Pro Glu Lys Lys Gly Gly Leu Lys Glu
65 70 75 80

Leu Phe Gly Lys Gly Pro Gln Asn Ala Xaa Phe Leu Val Lys Phe Trp
85 90 95

Ala Asp Leu Asn Cys Asn Ile Gln Asp Asp Ala Gly Ala Phe Tyr Gly
100 105 110

Val	Thr	Ser	Gln	Tyr	Glu	Ser	Ser	Glu	Asn	Met	Thr	Val	Thr	Cys	Ser
		115					120					125			

Thr Lys Val Cys Ser Phe Gly Lys Gln Val Val Xaa Lys Val Glu Thr
130 135 140

Glu Tyr Ala Arg Phe Glu Asn Xaa Arg Phe Val Tyr Arg Ile Xaa Arg
145 150 155 160

Ser Pro Met Cys Glu Tyr Met Ile Asn Phe Ile His Lys Leu Lys His
165 170 175

Leu Pro Glu Lys Tyr Met Met Asn Ser Val Leu Glu Xaa Phe Thr Ile
180 185 190

Leu Leu Xaa Val Thr Xaa Arg Asp Thr Xaa Xaa Thr Leu Leu Cys Met
195 200 205

Ala Cys Val Phe Glu Val Ser Asn Xaa Glu Xaa Gly Ala Gln His His
210 215 220

```

Ile Tyr Arg Leu Val Lys Asp
225                               230

```

5122

<210> 5835

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5835

Ala Asp Leu Arg Glu Gln Arg Gly Leu Arg Gln Ala Thr Asp His Gln
1 5 10 15

Glu Leu Val Glu Ile Pro Thr Arg Pro Leu Leu Thr Lys Leu Ser Leu
20 25 30

Ile Thr Ala Pro Arg Arg Gly Glu Arg Ala Pro Val Pro Leu Arg Ala
35 40 45

Gly Gly His Ser Thr Gly Asp Thr Ala
50 55

<210> 5836

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5836

Ile Ala His Tyr Phe Leu Tyr Arg Tyr Leu Lys Lys Thr Val Tyr Gly
1 5 10 15

Leu His Phe Phe Xaa Cys His Ile Gly Leu Met Leu Leu Ser Asn Gly
20 25 30

Gly Ala Arg Ser His His Ser Leu Ser Pro Gln Ile Asp Phe Val Pro
35 40 45

Pro Ser Asn Lys Leu Ser Lys Ser
50 55

<210> 5837

<211> 555

<212> PRT

<213> Homo sapiens

5123

<400> 5837

Gln Tyr Arg Ser Glu Phe Pro Gly Arg Pro Thr Arg Pro Ala Val Thr
 1 5 10 15
 Ala Thr Ala Ala Ser Asp Arg Met Glu Ser Asp Ser Asp Ser Asp Lys
 20 25 30
 Ser Ser Asp Asn Ser Gly Leu Lys Arg Lys Thr Pro Ala Leu Lys Met
 35 40 45
 Ser Val Ser Lys Arg Ala Arg Lys Ala Ser Ser Asp Leu Asp Gln Ala
 50 55 60
 Ser Val Ser Pro Ser Glu Glu Glu Asn Ser Glu Ser Ser Ser Glu Ser
 65 70 75 80
 Glu Lys Thr Ser Asp Gln Asp Phe Thr Pro Glu Lys Lys Ala Ala Val
 85 90 95
 Arg Ala Pro Arg Arg Gly Pro Leu Gly Gly Arg Lys Lys Lys Lys Ala
 100 105 110
 Pro Ser Ala Ser Asp Ser Asp Ser Lys Ala Asp Ser Asp Gly Ala Lys
 115 120 125
 Pro Glu Pro Val Ala Met Ala Arg Ser Ala Ser Ser Ser Ser Ser
 130 135 140
 Ser Ser Ser Ser Asp Ser Asp Val Ser Val Lys Lys Pro Pro Arg Gly
 145 150 155 160
 Arg Lys Pro Ala Glu Lys Pro Leu Pro Lys Pro Arg Gly Arg Lys Pro
 165 170 175
 Lys Pro Glu Arg Pro Pro Ser Ser Ser Ser Ser Asp Ser Asp Ser Asp
 180 185 190
 Glu Val Asp Arg Ile Ser Glu Trp Lys Arg Arg Asp Glu Ala Arg Arg
 195 200 205
 Arg Glu Leu Glu Ala Arg Arg Arg Arg Glu Gln Glu Glu Leu Arg
 210 215 220
 Arg Leu Arg Glu Gln Glu Lys Glu Glu Lys Glu Arg Arg Arg Glu Arg
 225 230 235 240
 Ala Asp Arg Gly Glu Ala Glu Arg Gly Ser Gly Gly Ser Ser Gly Asp
 245 250 255
 Glu Leu Arg Glu Asp Asp Glu Pro Val Lys Lys Arg Gly Arg Lys Gly
 260 265 270

5124

Arg	Gly	Arg	Gly	Pro	Pro	Ser	Ser	Ser	Asp	Ser	Glu	Pro	Glu	Ala	Glu	275	280	285
Leu	Glu	Arg	Glu	Ala	Lys	Lys	Ser	Ala	Lys	Lys	Pro	Gln	Ser	Ser	Ser	290	295	300
Thr	Glu	Pro	Ala	Arg	Lys	Pro	Gly	Gln	Lys	Glu	Lys	Arg	Val	Arg	Pro	305	310	315
Glu	Glu	Lys	Gln	Gln	Ala	Lys	Pro	Val	Lys	Val	Glu	Arg	Thr	Arg	Lys	325	330	335
Arg	Ser	Glu	Gly	Phe	Ser	Met	Asp	Arg	Lys	Val	Glu	Lys	Lys	Lys	Glu	340	345	350
Pro	Ser	Val	Glu	Glu	Lys	Leu	Gln	Lys	Leu	His	Ser	Glu	Ile	Lys	Phe	355	360	365
Ala	Leu	Lys	Val	Asp	Ser	Pro	Asp	Val	Lys	Arg	Cys	Leu	Asn	Ala	Leu	370	375	380
Glu	Glu	Leu	Gly	Thr	Leu	Gln	Val	Thr	Ser	Gln	Ile	Leu	Gln	Lys	Asn	385	390	395
Thr	Asp	Val	Val	Ala	Thr	Leu	Lys	Lys	Ile	Arg	Arg	Tyr	Lys	Ala	Asn	405	410	415
Lys	Asp	Val	Met	Glu	Lys	Ala	Ala	Glu	Val	Tyr	Thr	Arg	Leu	Lys	Ser	420	425	430
Arg	Val	Leu	Gly	Pro	Lys	Ile	Glu	Ala	Val	Gln	Lys	Val	Asn	Lys	Ala	435	440	445
Gly	Met	Glu	Lys	Glu	Lys	Ala	Glu	Glu	Lys	Leu	Ala	Gly	Glu	Glu	Leu	450	455	460
Ala	Gly	Glu	Glu	Ala	Pro	Gln	Glu	Lys	Ala	Glu	Asp	Lys	Pro	Ser	Thr	465	470	475
Asp	Leu	Ser	Ala	Pro	Val	Asn	Gly	Glu	Ala	Thr	Ser	Gln	Lys	Gly	Glu	485	490	495
Ser	Ala	Glu	Asp	Lys	Glu	His	Glu	Glu	Gly	Arg	Asp	Ser	Glu	Glu	Gly	500	505	510
Pro	Arg	Cys	Gly	Ser	Ser	Glu	Asp	Leu	His	Asp	Ser	Val	Arg	Glu	Gly	515	520	525
Pro	Asp	Leu	Asp	Arg	Pro	Gly	Ser	Asp	Arg	Gln	Glu	Arg	Glu	Arg	Ala	530	535	540

5125

Arg Gly Asp Ser Glu Ala Leu Asp Glu Glu Ser
 545 550 555

<210> 5838

<211> 227

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5838

Gln His Pro Gln Pro Ala Asp Ser Arg Gln Thr Gly Ser Ser Lys Ala
 1 5 10 15

Leu Ala Gln Thr Leu Pro Pro Pro Thr Xaa Ala Gly Glu Ser Asn Ser
 20 25 30

Val Thr Cys Asn Cys Gly Gln Glu Ala Val Leu Leu Thr Val Arg Lys
 35 40 45

Glu Gly Pro Asn Arg Gly Arg Gln Phe Phe Lys Cys Asn Gly Gly Ser
 50 55 60

Cys Asn Phe Phe Leu Trp Ala Asp Ser Pro Asn Pro Gly Ala Gly Gly
 65 70 75 80

Pro Pro Ala Leu Ala Tyr Arg Pro Leu Gly Ala Ser Leu Gly Cys Pro
 85 90 95

Pro Gly Pro Gly Ile His Leu Gly Gly Phe Gly Asn Pro Gly Asp Gly
 100 105 110

Ser Gly Ser Gly Thr Ser Cys Leu Cys Ser Gln Pro Ser Val Thr Arg
 115 120 125

Thr Val Gln Lys Asp Gly Pro Asn Lys Gly Arg Gln Phe His Thr Cys
 130 135 140

Ala Lys Pro Arg Glu Gln Gln Cys Gly Phe Phe Gln Trp Val Asp Glu
 145 150 155 160

5126

Asn Thr Ala Pro Gly Thr Ser Gly Ala Pro Ser Trp Thr Gly Asp Arg
 165 170 175
 Gly Arg Thr Leu Glu Ser Glu Ala Arg Ser Lys Arg Pro Arg Ala Gly
 180 185 190
 Ser Ser Asp Met Gly Ser Thr Ala Lys Lys Pro Arg Lys Cys Ser Xaa
 195 200 205
 Cys His Gln Pro Gly Thr His Pro Ser Leu Leu Ser Ser Glu Gln Met
 210 215 220
 Ser Ser Gly
 225

<210> 5839

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5839

Gly Arg Ser Arg Val Ser Ser Arg Lys Arg His Pro Ala Gly Pro Pro
 1 5 10 15
 Gly Glu Ala Gln Glu Gly Ser Ala Lys Ala Glu Arg Pro Gly Leu Gln
 20 25 30
 Asn Met Glu Leu Ala Pro Val Gln Arg Lys Ile Glu Ala Arg Ser Ala
 35 40 45
 Glu Asp Ser Phe Thr Gly Phe Val Arg Thr Leu Tyr Phe Ala Asp Thr
 50 55 60
 Tyr Leu Lys Asp Ser Ser Arg His Cys Pro Ser Leu Trp Ala Gly Thr
 65 70 75 80
 Asn Gly Gly Thr Ile Tyr Ala Phe Ser Leu Arg Val Pro Pro Ala Glu
 85 90 95
 Arg Arg Met Asp Glu Pro Val Arg Ala Glu Gln Ala Lys Glu Ile Gln
 100 105 110
 Leu Met His Arg Ala Pro Val Val Gly Ile Leu Val Leu Asp Gly His

5127

115	120	125
Ser Val Pro Leu Pro Glu Pro Leu Glu Val Ala His Asp Leu Ser Lys		
130	135	140
Ser Pro Asp Met Gln Gly Ser His Gln Leu Leu Val Val Ser Glu Glu		
145	150	155
Gln Phe Lys Val Phe Thr Leu Pro Lys Val Ser Xaa Lys Leu Lys Leu		
165	170	175
Lys Leu Thr Ala Leu Glu Gly Ser Arg Val Arg Arg Val Ser Val Ala		
180	185	190
His Phe Gly Ser Arg Arg Ala Glu Asp Tyr Gly Glu His His Leu Ala		
195	200	205
Val Leu Thr Asn Leu Gly Asp Ile Gln Val Val Ser Leu Pro Leu Leu		
210	215	220
Lys Pro Gln Val Arg Tyr Ser Cys Ile Arg Arg Glu Asp Val Met Ala		
225	230	235
Ser Pro Pro Ala Ser Ser Pro Asn Met Ala Lys Ala Ser Thr		
245	250	

<210> 5840

<211> 88

<212> PRT

<213> Homo sapiens

<400> 5840

Gln Pro Ile His Thr Arg Pro Gly Leu Phe Ile Tyr Thr Ala Ala His		
1	5	10
Ser Ser Leu Gln Leu His Met Leu Tyr Leu Asp His Ser Glu Ala Asn		
20	25	30
Ser Glu His Tyr Ile Ile Leu Ser Ile Asn Ile Ser Asn Ile Leu Lys		
35	40	45
Tyr Thr Ile Gly Ile Gln Ala Ser Pro Ile Val Pro Gln Met Phe Gly		
50	55	60
Cys Phe Cys Ser Trp Ile Val Cys Ile Arg Ile Gln Ala Arg Pro Ile		
65	70	75
Tyr Cys Ile Tyr Leu Lys Cys Leu		
85		

5128

<210> 5841

<211> 98

<212> PRT

<213> Homo sapiens

<400> 5841

Ser	Phe	Thr	Gly	Gln	Ser	Arg	Thr	Lys	Ile	Val	Tyr	Ser	Met	Tyr	Ser
1				5				10					15		

Arg	Lys	Ala	Ala	Glu	Glu	Val	Lys	Arg	Glu	Leu	Ile	Lys	Leu	Lys	Val
		20					25					30			

Asn	Tyr	Tyr	Ile	Leu	Glu	Glu	Ser	Trp	Cys	Val	Arg	Arg	Ser	Lys	Pro
	35						40				45				

Gly	Cys	Ser	Met	Pro	Glu	Ile	Trp	Asp	Val	Glu	Asp	Pro	Ala	Asn	Ala
50						55				60					

Gly	Lys	Thr	Pro	Leu	Cys	Asn	Leu	Leu	Val	Lys	Asp	Ser	Lys	Pro	His
65					70				75						80

Phe	Thr	Thr	Val	Phe	Gln	Asn	Ser	Val	Tyr	Lys	Val	Leu	Glu	Val	Val
			85					90					95		

Lys Glu

<210> 5842

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5842

Arg	Ala	Glu	Phe	Gly	Thr	Xaa	Ser	Leu	Gln	Ala	Pro	Ser	Arg	Glu	Glu
1				5				10					15		

Ala	Ala	Lys	Trp	Ser	Gln	Val	Arg	Lys	Asp	Leu	Cys	Ser	Leu	Lys	Val
		20					25					30			

Ser	Leu	Gln	Leu	Arg	Gly	Glu	Asp	Gly	Ser	Val	Trp	Asn	Tyr	Lys	Pro
	35					40					45				

5129

Pro Ala Asp Ser Gly Gly Lys Glu Ile Phe Ser Leu Leu Pro His Met
 50 55 60

Ala Asp Met Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser Phe Ala Lys
 65 70 75 80

Val Ile Ser Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln Ile Ser Cys
 85 90 95

<210> 5843

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5843

Val Thr Ala Xaa Ser Gly Ile Leu Asp Val Thr Val Val Tyr Leu Asn
 1 5 10 15

Pro Glu Gln His Cys Cys Gln Glu Ser Ser Asp Glu Glu Ala Cys Pro
 20 25 30

Glu Asp Lys Gly Pro Gln Asp Pro Gln Ala Leu Ala Leu Asp Thr Gln
 35 40 45

Ile Pro Ala Thr Pro Gly Pro Lys Pro Leu Val Arg Thr Ser Arg Glu
 50 55 60

Pro Gly Lys Asp Val Thr Thr Ser Gly Tyr Ser Ser Val Ser Thr Ala
 65 70 75 80

Ser Pro Thr Ser Ser Val Asp Gly Gly Leu Gly Ala Leu Pro Gln Pro
 85 90 95

Thr Ser Val Leu Ser Leu Asp Ser Asp Ser His Thr Gln Pro Cys His
 100 105 110

His Gln Ala Arg Lys Ser Cys Leu Gln Cys Arg Pro Pro Ser Pro Pro
 115 120 125

Glu Ser Ser Val Pro Gln Gln Gln Val Lys Arg Ile Asn Leu Cys Ile

5130

130 135 140
 His Ser Glu Glu Glu Asp Met Asn Leu Gly Leu Val Arg Leu
 145 150 155

 <210> 5844
 <211> 71
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5844
 Gly Cys Leu Asn Asp Glu His Leu Glu Glu Leu Gly Gly Ile Leu Lys
 1 5 10 15

 Ala Lys Leu Glu Gly His Phe Lys Asn Gln Glu Leu Arg Gln Val Lys
 20 25 30

 Arg Gln Glu Glu Asn Tyr Asp Gln Gln Val Glu Met Ser Leu Xaa Asp
 35 40 45

 Glu Asp Glu Cys Asp Val Tyr Ile Leu Thr Lys Val Ser Asp Ile Xaa
 50 55 60

 His Ser Leu Phe Lys Tyr Leu
 65 70

<210> 5845
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 5845
 Arg Gly Gln His Gln Leu Glu Gly Gly Leu Gly Gly Phe Gln Gly Leu
 1 5 10 15

 His Gln Val Arg Arg Pro Cys Pro Glu Asp Trp Leu Leu Tyr Gly Arg
 20 25 30

5131

Lys	Cys	Tyr	Phe	Phe	Ser	Glu	Glu	Pro	Arg	Asp	Trp	Asn	Thr	Gly	Arg	
35						40						45				
Gln	Tyr	Cys	His	Thr	His	Glu	Ala	Val	Leu	Ala	Val	Ile	Gln	Ser	Gln	
50						55						60				
Lys	Glu	Leu	Glu	Phe	Met	Phe	Lys	Phe	Thr	Arg	Arg	Glu	Pro	Trp	Ile	
65			70						75						80	
Gly	Leu	Arg	Arg	Val	Gly	Asp	Glu	Phe	His	Trp	Val	Asn	Gly	Asp	Pro	
			85						90						95	
Phe	Asp	Pro	Asp	Thr	Phe	Thr	Ile	Ala	Gly	Pro	Gly	Glu	Cys	Val	Phe	
			100						105						110	
Val	Glu	Pro	Thr	Arg	Leu	Val	Ser	Thr	Glu	Cys	Leu	Met	Thr	Arg	Pro	
115						120						125				
Trp	Val	Cys	Ser	Lys	Met	Ala	Tyr	Thr								
130						135										

<210> 5846

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

$\langle 222 \rangle$ (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

 $\langle 222 \rangle$ (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5846

Gly Ala Arg Pro Gly Ala Glu Gly Ala Arg Ala Phe Gly Gly Ser Ile
1 5 10 15

Gly Leu Gln Ala Glu Glu Gln Gly Pro Cys His Leu Pro Gly Gly Arg
20 25 30

Ser His Leu Cys Ser Gln Val Arg Gly Ser Ser Gly Gly Glu Thr Glu

Cys Ala Ser Trp Glu Ala Pro Arg Ile Val Gly Gly Glu Leu Ala Ala
50 55 60

5132

Ser Leu Ala Cys Pro Leu Phe Pro Val Pro Pro Ser Arg Leu Ala Pro
65 70 75 80

Ala Pro Ala Trp Glu Asp Pro His Leu Arg Leu Gln Cys Leu Phe Pro
85 90 95

Leu Glu Ala Leu Pro Ser Ala Arg Gly Pro Arg Ile Leu Pro Trp Pro
100 105 110

Ser Glu His Arg Leu Gly Arg Pro Xaa Asn Ser Ser Val Lys Pro Gly
115 120 125

Ile Xaa
130

<210> 5847

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5847

Glu Phe Gly Arg Gly Glu Ile Ser Arg Gly Pro Asp Val His Leu Thr
1 5 10 15

His Gly Leu Glu Pro Lys Asp Val Asn Arg Glu Phe Arg Leu Thr Glu
20 25 30

Ser Ser Thr Cys Glu Pro Ser Thr Val Ala Ala Val Leu Ser Arg Ala
35 40 45

Gln Gly Cys Arg Ser Pro Ser Ala Pro Asp Val Arg Thr Gly Ser Phe
50 55 60

Ser His Ser Ala Thr Asp Gly Ser Val Gly Leu Ile Gly Val Pro Glu
65 70 75 80

Lys Lys Val Ala Glu Lys Gln Ala Ser Thr Glu Leu Glu Ala Ala Ser
85 90 95

5133

Phe Pro Ala Xaa Met Tyr Ser Glu Pro Leu Arg Gln Phe Arg Asp Ser
 100 105 110

Ser Val Gly Asp Gln Asn Ala Gln Val Cys Gln Thr Asn Ser Arg Thr
 115 120 125

Xaa Cys Asn Asn Ser Gly Asp His Thr Pro Trp Ile
 130 135 140

<210> 5848

<211> 194

<212> PRT

<213> Homo sapiens

<400> 5848

Leu Leu Ser Asn Lys Met Asn Phe Val Leu Val Lys Val Arg Tyr Asp
 1 5 10 15

Val Val Gly Met Phe Trp Asn Met Phe Phe Gln Val Ala Ser Gly Gly
 20 25 30

Gly Gly Val Gly Asp Gly Val Gln Glu Pro Thr Thr Gly Asn Trp Arg
 35 40 45

Gly Met Leu Lys Thr Ser Lys Ala Glu Glu Leu Leu Ala Glu Glu Lys
 50 55 60

Ser Lys Pro Ile Pro Ile Met Pro Ala Ser Pro Gln Lys Gly His Ala
 65 70 75 80

Val Asn Leu Leu Asp Val Pro Val Pro Val Ala Arg Lys Leu Ser Ala
 85 90 95

Arg Glu Gln Arg Asp Cys Glu Val Ile Glu Arg Leu Ile Lys Ser Tyr
 100 105 110

Phe Leu Ile Val Arg Lys Asn Ile Gln Asp Ser Val Pro Lys Ala Val
 115 120 125

Met His Phe Leu Val Asn His Val Lys Asp Thr Leu Gln Ser Glu Leu
 130 135 140

Val Gly Gln Leu Tyr Lys Ser Ser Leu Leu Asp Asp Leu Leu Thr Glu
 145 150 155 160

Ser Glu Asp Met Ala Gln Arg Arg Lys Glu Ala Ala Asp Met Leu Lys
 165 170 175

5134

Ala Leu Gln Gly Ala Ser Gln Ile Ile Ala Glu Ile Arg Glu Thr His
 180 185 190

Leu Trp

<210> 5849

<211> 75

<212> PRT

<213> Homo sapiens

<400> 5849

Leu Phe Lys Val Ser Asn Val His Pro Gly Leu Gly Ile Thr Asn Val
 1 5 10 15

Gly Val Lys Met Pro Thr Lys Gly Phe Ser Ala Leu Glu Val Leu Arg
 20 25 30

Ser Pro Ile Cys Ile Lys Ala Asp Pro Phe Cys Lys Asp Leu Ser Phe
 35 40 45

Arg Thr Phe Ser Val Leu Leu Val Arg Thr Leu Glu Val Ile Leu Ile
 50 55 60

Ile Ser Thr Asp Ser Leu Thr Ala Glu Ala Thr
 65 70 75

<210> 5850

<211> 241

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (199)

<223> Xaa equals any of the naturally occurring L-amino acids

5135

<220>

<221> SITE

<222> (226)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (230)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5850

Cys	Xaa	Phe	Xaa	Asn	Ala	Gly	Val	Lys	Gln	Ser	Ala	Leu	Leu	Gly	Leu
1				5				10						15	

Lys	Asp	Leu	Leu	Ser	Gln	Tyr	Pro	Phe	Ile	Ile	Asp	Ala	His	Leu	Ser
		20						25					30		

Asn	Ile	Leu	Ser	Glu	Val	Thr	Ala	Val	Phe	Thr	Asp	Lys	Asp	Ala	Asn
		35					40					45			

Val	Arg	Leu	Ala	Ala	Val	Gln	Leu	Leu	Gln	Phe	Leu	Ala	Pro	Lys	Ile
	50					55					60				

Arg	Ala	Glu	Gln	Ile	Ser	Pro	Phe	Phe	Pro	Leu	Val	Ser	Ala	His	Leu
65					70					75					80

Ser	Ser	Ala	Met	Thr	His	Ile	Thr	Glu	Gly	Ile	Gln	Glu	Asp	Ser	Leu
				85					90					95	

Lys	Val	Leu	Asp	Ile	Leu	Leu	Glu	Gln	Tyr	Pro	Ala	Leu	Ile	Thr	Gly
		100						105					110		

Arg	Ser	Ser	Ile	Leu	Leu	Lys	Asn	Phe	Val	Glu	Leu	Ile	Ser	His	Gln
		115					120					125			

Gln	Leu	Ser	Lys	Gly	Leu	Ile	Asn	Arg	Asp	Arg	Ser	Gln	Ser	Trp	Ile
	130					135					140				

Leu	Ser	Val	Asn	Pro	Asn	Arg	Arg	Leu	Thr	Ser	Gln	Gln	Trp	Arg	Leu
145					150					155					160

5136

Lys Val Leu Val Arg Leu Ser Lys Phe Leu Gln Ala Leu Ala Asp Gly
 165 170 175
 Ser Ser Arg Leu Arg Glu Ser Glu Gly Leu Gln Glu Gln Lys Glu Asn
 180 185 190
 Pro His Ala Thr Ser Asn Xaa Ile Phe Ile Asn Trp Lys Glu His Ala
 195 200 205
 Asn Asp Gln Gln His Ile Gln Gly Tyr Glu Asn Gly Gly Ser Gln Ala
 210 215 220
 Lys Xaa Gly Pro Xaa Xaa Xaa Thr Asp Leu Val Gly Gly Leu Met Gly
 225 230 235 240

Gly

<210> 5851

<211> 260

<212> PRT

<213> Homo sapiens

<400> 5851

Asn Ser Arg Thr Asp Val Arg Met Glu Thr Asp Leu Glu Val Ile Ile
 1 5 10 15
 Lys Asp Asn Ser Leu Val Leu Thr Pro Ser His Ile Lys Ala Tyr Met
 20 25 30
 Leu Met Thr Leu Gln Gly Leu Glu Tyr Leu His Gln His Trp Ile Leu
 35 40 45
 His Arg Asp Leu Lys Pro Asn Asn Leu Leu Leu Asp Glu Asn Gly Val
 50 55 60
 Leu Lys Leu Ala Asp Phe Gly Leu Ala Lys Ser Phe Gly Ser Pro Asn
 65 70 75 80
 Arg Ala Tyr Thr His Gln Val Val Thr Arg Trp Tyr Arg Ala Pro Glu
 85 90 95
 Leu Leu Phe Gly Ala Arg Met Tyr Gly Val Gly Val Asp Met Trp Ala
 100 105 110
 Val Gly Cys Ile Leu Ala Glu Leu Leu Leu Arg Val Pro Phe Leu Pro
 115 120 125
 Gly Asp Ser Asp Leu Asp Gln Leu Thr Arg Ile Phe Glu Thr Leu Gly

5137

[illegible]

```
<210> 5852
<211> 94
<212> PRT
<213> Homo sapiens
```

<400> 5852

Ser	Ser	Tyr	Arg	Ser	Lys	Ala	Tyr	Thr	His	Thr	Lys	Ile	Thr	Val	Pro
1				5					10					15	
Arg	Glu	Arg	Val	Cys	Val	Ser	Val	Arg	Val	Ser	Val	Cys	Ala	Arg	Ala
			20					25					30		
Arg	Ser	Trp	Pro	Asn	Val	Arg	Thr	Leu	His	Lys	Gly	Gly	Arg	Ser	Ser
		35					40					45			
Tyr	Arg	Leu	Phe	Asn	Val	Arg	Glu	Thr	Ile	Phe	Leu	Leu	Phe	Gln	Leu
	50					55					60				
Tyr	Gln	Ile	Leu	Val	Pro	Gln	His	Arg	Asn	Asp	Ser	Glu	Ser	Gln	Thr
65					70					75					80
Lys	Cys	Ile	Ile	Cys	Ser	Ile	Leu	Ile	Leu	Leu	Leu	His	Ser		
				85					90						

5138

<210> 5853

<211> 89

<212> PRT

<213> Homo sapiens

<400> 5853

Cys Cys Leu Cys Gly Leu Trp Val Trp Thr Asn Pro Val Val Ala Cys
1 5 10 15
Pro Pro Glu Pro Pro Pro Ser Gln Gln Arg His Gln Gly Ala Leu Gly
20 25 30
Ser Pro Lys Thr Tyr His Ser Arg Val Pro Gln Ala Pro Gly Cys Cys
35 40 45
Phe Leu Leu Pro Val Pro Gln Pro His Ala Pro Phe Tyr Ile Leu Cys
50 55 60
Val Ser Lys Gly Trp Lys Asn Lys Thr Gln Leu Lys Ile Lys Lys Lys
65 70 75 80
Lys Lys Lys Lys Lys Lys Lys Lys Lys
85

<210> 5854

<211> 544

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (266)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (320)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (321)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5139

<222> (527)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (528)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (529)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5854

Leu	Ser	Trp	Pro	Val	Val	Ala	Asn	Gln	Val	Leu	Lys	Leu	Gly	Asn	Leu
1				5					10					15	

Glu	Phe	Lys	Pro	Glu	Ser	Arg	Val	Asn	Gly	Leu	Asp	Glu	Ser	Lys	Ile
			20					25					30		

Lys	Asp	Lys	Asn	Glu	Leu	Lys	Glu	Ile	Cys	Glu	Leu	Thr	Gly	Ile	Asp
		35					40					45			

Gln	Ser	Val	Leu	Glu	Arg	Ala	Phe	Ser	Phe	Arg	Thr	Val	Glu	Ala	Lys
		50				55					60				

Gln	Glu	Lys	Val	Ser	Thr	Thr	Leu	Asn	Val	Ala	Gln	Ala	Tyr	Tyr	Ala
65					70					75					80

Arg	Asp	Ala	Leu	Ala	Lys	Asn	Leu	Tyr	Ser	Arg	Leu	Phe	Ser	Trp	Leu
				85					90					95	

Val	Asn	Arg	Ile	Asn	Glu	Ser	Ile	Lys	Ala	Gln	Thr	Lys	Val	Arg	Lys
			100					105					110		

Lys	Val	Met	Gly	Val	Leu	Asp	Ile	Tyr	Gly	Phe	Glu	Ile	Phe	Glu	Asp
		115					120					125			

Asn	Ser	Phe	Glu	Gln	Phe	Ile	Ile	Asn	Tyr	Cys	Asn	Glu	Lys	Leu	Gln
		130				135					140				

Gln	Ile	Phe	Ile	Glu	Leu	Thr	Leu	Lys	Glu	Glu	Gln	Glu	Glu	Tyr	Ile
145					150					155					160

Arg	Glu	Asp	Ile	Glu	Trp	Thr	His	Ile	Asp	Tyr	Phe	Asn	Asn	Ala	Ile
				165					170					175	

Ile	Cys	Asp	Leu	Ile	Glu	Asn	Asn	Thr	Asn	Gly	Ile	Leu	Ala	Met	Leu
			180					185					190		

Asp	Glu	Glu	Cys	Leu	Arg	Pro	Gly	Thr	Val	Thr	Asp	Glu	Thr	Phe	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5140

195	200	205
Glu Lys Leu Asn Gln Val Cys Ala Thr His Gln His Phe Glu Ser Arg		
210	215	220
Met Ser Lys Cys Ser Arg Phe Leu Asn Asp Thr Ser Leu Pro His Ser		
225	230	235 240
Cys Phe Arg Ile Gln His Tyr Ala Gly Lys Val Leu Tyr Gln Val Glu		
	245	250 255
Gly Phe Val Asp Lys Asn Asn Asp Leu Xaa Tyr Arg Asp Leu Ser Gln		
	260	265 270
Ala Met Trp Lys Ala Ser His Ala Leu Ile Lys Ser Leu Phe Pro Glu		
	275	280 285
Gly Asn Pro Ala Lys Ile Asn Leu Lys Arg Pro Pro Thr Ala Gly Ser		
	290	295 300
Gln Phe Lys Ala Ser Val Ala Thr Leu Met Lys Asn Leu Gln Thr Xaa		
305	310	315 320
Xaa Pro Asn Tyr Ile Arg Cys Ile Lys Pro Asn Asp Lys Lys Ala Ala		
	325	330 335
His Ile Phe Asn Glu Ala Leu Val Cys His Gln Ile Arg Tyr Leu Gly		
	340	345 350
Leu Leu Glu Asn Val Arg Val Arg Arg Ala Gly Tyr Ala Phe Arg Gln		
	355	360 365
Ala Tyr Glu Pro Cys Leu Glu Arg Tyr Lys Met Leu Cys Lys Gln Thr		
	370	375 380
Trp Pro His Trp Lys Gly Pro Ala Arg Ser Gly Val Glu Val Leu Phe		
385	390	395 400
Asn Glu Leu Glu Ile Pro Val Glu Glu Tyr Ser Phe Gly Arg Ser Lys		
	405	410 415
Ile Phe Ile Arg Asn Pro Arg Thr Leu Phe Lys Leu Glu Asp Leu Arg		
	420	425 430
Lys Gln Arg Leu Glu Asp Leu Ala Thr Leu Ile Gln Lys Ile Tyr Arg		
	435	440 445
Gly Trp Lys Cys Arg Thr His Phe Leu Leu Met Lys Lys Ser Gln Ile		
	450	455 460
Val Ile Ala Ala Trp Tyr Arg Arg Tyr Ala Gln Gln Lys Arg Tyr Gln		

5141

465 470 475 480
 Gln Thr Lys Ser Ser Ala Leu Val Ile Gln Ser Tyr Ile Arg Gly Trp
 485 490 495
 Lys Ala Arg Lys Ile Leu Arg Glu Leu Lys His Gln Lys Arg Cys Lys
 500 505 510
 Glu Ala Val Thr Thr Ile Ala Ala Tyr Trp His Gly Thr Gln Xaa Xaa
 515 520 525
 Xaa Lys Asn Gln Glu Ile Leu Gln Ser Gln Cys Trp Lys Arg Lys Ser
 530 535 540

<210> 5855

<211> 87

<212> PRT

<213> Homo sapiens

<400> 5855

Leu Cys Leu Leu Lys Arg Pro Ser Pro Ile Leu Phe Asn Pro Gly Ser
 1 5 10 15
 Pro Ser Gly Gly Pro Thr Leu Gly Thr Thr Ser Pro Thr Asp Gly Pro
 20 25 30
 Leu Ala Ser Ala Ile Leu Leu Ala Ala Ile Ser Trp Ala Lys Met Leu
 35 40 45
 Leu Leu Pro Asp Val Ala Asp Phe Pro Cys Gly Ala Lys Arg Lys Pro
 50 55 60
 Arg Leu Leu Met Leu Ile Ile Pro Leu Ser Ser Gln Pro Leu Tyr Ile
 65 70 75 80
 Lys Ala Ser Gly Thr Lys Arg
 85

<210> 5856

<211> 600

<212> PRT

<213> Homo sapiens

<220>

5142

<221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (81)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (120)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (167)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (270)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5856
 Arg Thr Arg Gly Lys Gln Ala Ala Asn Asn Ser Leu Leu Leu His Leu
 1 5 10 15
 Leu Lys Ser Gln Thr Ile Pro Lys Pro Met Asn Gly His Ser His Ser
 20 25 30
 Glu Arg Gly Ser Ile Phe Glu Glu Ser Ser Thr Pro Xaa Thr Ile Xaa
 35 40 45
 Glu Tyr Ser Xaa Asn Asn Pro Ser Phe Thr Asp Asp Ser Ser Gly Asp
 50 55 60

5143

Glu	Ser	Ser	Tyr	Ser	Asn	Cys	Val	Pro	Ile	Asp	Leu	Ser	Cys	Lys	His	65	70	75	80
Xaa	Thr	Glu	Lys	Ser	Glu	Ser	Asp	Gln	Pro	Val	Ser	Leu	Asp	Asn	Phe	85	90	95	
Thr	Gln	Ser	Leu	Leu	Asn	Thr	Trp	Asp	Pro	Lys	Val	Pro	Asp	Val	Asp	100	105	110	
Ile	Lys	Glu	Asp	Gln	Asp	Thr	Xaa	Lys	Asn	Ser	Lys	Leu	Asn	Ser	His	115	120	125	
Gln	Lys	Val	Thr	Leu	Leu	Gln	Leu	Xaa	Leu	Gly	His	Lys	Asn	Glu	Glu	130	135	140	
Asn	Val	Glu	Lys	Asn	Thr	Ser	Pro	Gln	Gly	Val	His	Asn	Asp	Val	Ser	145	150	155	160
Lys	Phe	Asn	Thr	Gln	Asn	Xaa	Ala	Arg	Thr	Ser	Val	Ile	Glu	Ser	Pro	165	170	175	
Ser	Thr	Asn	Arg	Thr	Thr	Pro	Val	Ser	Thr	Pro	Pro	Leu	Leu	Thr	Ser	180	185	190	
Ser	Lys	Ala	Gly	Ser	Pro	Ile	Asn	Leu	Ser	Gln	His	Ser	Leu	Val	Ile	195	200	205	
Lys	Trp	Asn	Ser	Pro	Pro	Tyr	Val	Cys	Ser	Thr	Gln	Ser	Glu	Lys	Leu	210	215	220	
Thr	Asn	Thr	Ala	Ser	Asn	His	Ser	Met	Asp	Leu	Thr	Lys	Ser	Lys	Asp	225	230	235	240
Pro	Pro	Gly	Glu	Lys	Pro	Ala	Gln	Asn	Glu	Gly	Ala	Gln	Asn	Ser	Ala	245	250	255	
Thr	Phe	Ser	Ala	Ser	Lys	Leu	Leu	Gln	Asn	Leu	Ala	Gln	Xaa	Gly	Met	260	265	270	
Gln	Ser	Ser	Met	Ser	Val	Glu	Glu	Gln	Arg	Pro	Ser	Lys	Gln	Leu	Leu	275	280	285	
Thr	Gly	Asn	Thr	Asp	Lys	Pro	Ile	Gly	Met	Ile	Asp	Arg	Leu	Asn	Ser	290	295	300	
Pro	Leu	Leu	Ser	Asn	Lys	Thr	Asn	Ala	Val	Glu	Glu	Asn	Lys	Ala	Phe	305	310	315	320
Ser	Ser	Gln	Pro	Thr	Gly	Pro	Glu	Pro	Gly	Leu	Ser	Gly	Ser	Glu	Ile	325	330	335	

5144

Glu Asn Leu Leu Glu Arg Arg Thr Val Leu Gln Leu Leu Leu Gly Asn
 340 345 350
 Pro Asn Lys Gly Lys Ser Glu Lys Lys Glu Lys Thr Pro Leu Arg Asp
 355 360 365
 Glu Ser Thr Gln Glu His Ser Glu Arg Ala Leu Ser Glu Gln Ile Leu
 370 375 380
 Met Val Lys Ile Lys Ser Glu Pro Cys Asp Asp Leu Gln Ile Pro Asn
 385 390 395 400
 Thr Asn Val His Leu Ser His Asp Ala Lys Ser Ala Pro Phe Leu Gly
 405 410 415
 Met Ala Pro Ala Val Gln Arg Ser Ala Pro Ala Leu Pro Val Ser Glu
 420 425 430
 Asp Phe Lys Ser Glu Pro Val Ser Pro Gln Asp Phe Ser Phe Ser Lys
 435 440 445
 Asn Gly Leu Leu Ser Arg Leu Leu Arg Gln Asn Gln Asp Ser Tyr Leu
 450 455 460
 Ala Asp Asp Ser Asp Arg Ser His Arg Asn Asn Glu Met Ala Leu Leu
 465 470 475 480
 Glu Ser Lys Asn Leu Cys Met Val Pro Lys Lys Arg Lys Leu Tyr Thr
 485 490 495
 Glu Pro Leu Glu Asn Pro Phe Lys Lys Met Lys Asn Asn Ile Val Asp
 500 505 510
 Ala Ala Asn Asn His Ser Ala Pro Glu Val Leu Tyr Gly Ser Leu Leu
 515 520 525
 Asn Gln Glu Glu Leu Lys Phe Ser Arg Asn Asp Leu Glu Phe Lys Tyr
 530 535 540
 Pro Ala Gly His Gly Ser Ala Ser Glu Ser Glu His Arg Ser Trp Ala
 545 550 555 560
 Arg Glu Ser Lys Ser Phe Asn Val Leu Lys Gln Leu Leu Leu Ser Glu
 565 570 575
 Asn Cys Val Arg Asp Leu Ser Pro His Arg Ser Asn Ser Val Ala Asp
 580 585 590
 Ser Lys Lys Glu Arg Thr Gln Lys
 595 600

5145

<210> 5857

<211> 308

<212> PRT

<213> Homo sapiens

<400> 5857

Gln	Tyr	Gly	Arg	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Ala	Glu	Pro	Leu	1	5	10	15
Glu	Asn	Pro	Phe	Lys	Lys	Met	Lys	Asn	Asn	Ile	Val	Asp	Ala	Ala	Asn	20	25	30	
Asn	His	Ser	Ala	Pro	Glu	Val	Leu	Tyr	Gly	Ser	Leu	Leu	Asn	Gln	Glu	35	40	45	
Glu	Leu	Lys	Phe	Ser	Arg	Asn	Asp	Leu	Glu	Phe	Lys	Tyr	Pro	Ala	Gly	50	55	60	
His	Gly	Ser	Ala	Ser	Glu	Ser	Glu	His	Arg	Ser	Trp	Ala	Arg	Glu	Ser	65	70	75	80
Lys	Ser	Phe	Asn	Val	Leu	Lys	Gln	Leu	Leu	Leu	Ser	Glu	Asn	Cys	Val	85	90	95	
Arg	Asp	Leu	Ser	Pro	His	Arg	Ser	Asn	Ser	Val	Ala	Asp	Ser	Lys	Lys	100	105	110	
Lys	Gly	His	Lys	Asn	Asn	Val	Thr	Asn	Ser	Lys	Pro	Glu	Phe	Ser	Ile	115	120	125	
Ser	Ser	Leu	Asn	Gly	Leu	Met	Tyr	Ser	Ser	Thr	Gln	Pro	Ser	Ser	Cys	130	135	140	
Met	Asp	Asn	Arg	Thr	Phe	Ser	Tyr	Pro	Gly	Val	Val	Lys	Thr	Pro	Val	145	150	155	160
Ser	Pro	Thr	Phe	Pro	Glu	His	Leu	Gly	Cys	Ala	Gly	Ser	Arg	Pro	Glu	165	170	175	
Ser	Gly	Leu	Leu	Asn	Gly	Cys	Ser	Met	Pro	Ser	Glu	Lys	Gly	Pro	Ile	180	185	190	
Lys	Trp	Val	Ile	Thr	Asp	Ala	Glu	Lys	Asn	Glu	Tyr	Glu	Lys	Asp	Ser	195	200	205	
Pro	Arg	Leu	Thr	Lys	Thr	Asn	Pro	Ile	Leu	Tyr	Tyr	Met	Leu	Gln	Lys	210	215	220	

5146

Gly Gly Asn Ser Val Thr Ser Arg Glu Thr Gln Asp Lys Asp Ile Trp
225 230 235 240

Arg Glu Ala Ser Ser Ala Glu Ser Val Ser Gln Val Thr Ala Lys Glu
245 250 255

Glu Leu Leu Pro Thr Ala Glu Thr Lys Ala Ser Phe Phe Asn Leu Arg
260 265 270

Ser Pro Tyr Asn Ser His Met Gly Asn Asn Ala Ser Arg Pro His Ser
275 280 285

Ala Asn Gly Glu Val Tyr Gly Leu Leu Gly Ser Val Leu Thr Ile Lys
290 295 300

Lys Glu Ser Glu
305

<210> 5858

<211> 553

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

$\langle 222 \rangle$ (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (375)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (438)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (549)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5858

5147

Thr Leu Glu Ala Glu Lys Glu Arg Arg Lys Ser Gly Leu Ser Ser Arg
 1 5 10 15
 Val Gln Phe Arg Asn Gln Gly Ser Glu Pro Lys Tyr Thr Gln Glu Leu
 20 25 30
 Thr Leu Lys Arg Gln Lys Gln Lys Val Cys Met Glu Glu Thr Leu Trp
 35 40 45
 Leu Gln Asp Asn Ile Arg Asp Lys Leu Arg Pro Ile Pro Ile Thr Ala
 50 55 60
 Ser Val Glu Ile Gln Glu Pro Ser Ser Arg Arg Arg Val Asn Ser Leu
 65 70 75 80
 Pro Glu Val Leu Pro Ile Leu Asn Ser Asp Glu Pro Lys Thr Ala His
 85 90 95
 Ile Asp Val His Phe Leu Lys Glu Gly Cys Gly Asp Asp Asn Val Cys
 100 105 110
 Asn Ser Asn Leu Lys Leu Glu Tyr Lys Phe Cys Thr Arg Glu Gly Asn
 115 120 125
 Xaa Asp Lys Phe Xaa Tyr Leu Pro Ile Gln Lys Gly Val Pro Glu Leu
 130 135 140
 Val Leu Lys Asp Gln Lys Asp Ile Ala Leu Glu Ile Thr Val Thr Asn
 145 150 155 160
 Ser Pro Ser Asn Pro Arg Asn Pro Thr Lys Asp Gly Asp Asp Ala His
 165 170 175
 Glu Ala Lys Leu Ile Ala Thr Phe Pro Asp Thr Leu Thr Tyr Ser Ala
 180 185 190
 Tyr Arg Glu Leu Arg Ala Phe Pro Glu Lys Gln Leu Ser Cys Val Ala
 195 200 205
 Asn Gln Asn Gly Ser Gln Ala Asp Cys Glu Leu Gly Asn Pro Phe Lys
 210 215 220
 Arg Asn Ser Asn Val Thr Phe Tyr Leu Val Leu Ser Thr Thr Glu Val
 225 230 235 240
 Thr Phe Asp Thr Pro Asp Leu Asp Ile Asn Leu Lys Leu Glu Thr Thr
 245 250 255
 Ser Asn Gln Asp Asn Leu Ala Pro Ile Thr Ala Lys Ala Lys Val Val
 260 265 270

5148

Ile Glu Leu Leu Leu Ser Val Ser Gly Val Ala Lys Pro Ser Gln Val
 275 280 285
 Tyr Phe Gly Gly Thr Val Val Gly Glu Gln Ala Met Lys Ser Glu Asp
 290 295 300
 Glu Val Gly Ser Leu Ile Glu Tyr Glu Phe Arg Val Ile Asn Leu Gly
 305 310 315 320
 Lys Pro Leu Thr Asn Leu Gly Thr Ala Thr Leu Asn Ile Gln Trp Pro
 325 330 335
 Lys Glu Ile Ser Asn Gly Lys Trp Leu Leu Tyr Leu Val Lys Val Glu
 340 345 350
 Ser Lys Gly Leu Glu Lys Val Thr Cys Glu Pro Gln Lys Glu Ile Asn
 355 360 365
 Ser Leu Asn Leu Thr Glu Xaa His Asn Ser Arg Lys Lys Arg Glu Ile
 370 375 380
 Thr Glu Lys Gln Ile Asp Asp Asn Arg Lys Phe Ser Leu Phe Ala Glu
 385 390 395 400
 Arg Lys Tyr Gln Thr Leu Asn Cys Ser Val Asn Val Asn Cys Val Asn
 405 410 415
 Ile Arg Cys Pro Leu Arg Gly Leu Asp Ser Lys Ala Ser Leu Ile Leu
 420 425 430
 Arg Ser Arg Leu Trp Xaa Ser Thr Phe Leu Glu Glu Tyr Ser Lys Leu
 435 440 445
 Asn Tyr Leu Asp Ile Leu Met Arg Ala Phe Ile Asp Val Thr Ala Ala
 450 455 460
 Ala Glu Asn Ile Arg Leu Pro Asn Ala Gly Thr Gln Val Arg Val Thr
 465 470 475 480
 Val Phe Pro Ser Lys Thr Val Ala Gln Tyr Ser Gly Val Pro Trp Trp
 485 490 495
 Ile Ile Leu Val Ala Ile Leu Ala Gly Ile Leu Met Leu Ala Leu Leu
 500 505 510
 Val Phe Ile Leu Trp Lys Cys Gly Phe Phe Lys Arg Asn Lys Lys Asp
 515 520 525
 His Tyr Asp Ala Thr Tyr His Lys Ala Glu Ile His Ala Gln Pro Ser
 530 535 540

5149

Asp Lys Glu Arg Xaa Thr Ser Asp Ala
545 550

<210> 5859

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5859

Arg Thr Pro Glu Ser Trp Arg Leu Thr Pro Pro Ala Lys Val Gly Gly
1 5 10 15

Leu Asp Phe Ser Pro Val Gln Thr Ser Gln Gly Ala Ser Asp Pro Leu
20 25 30

Pro Asp Pro Leu Gly Leu Met Asp Leu Ser Thr Thr Pro Leu Gln Ser
35 40 45

Ala Pro Pro Leu Glu Ser Pro Gln Arg Leu Leu Ser Ser Glu Pro Leu
50 55 60

Asp Leu Ile Ser Val Pro Phe Gly Asn Ser Ser Pro Ser Asp Ile Asp
65 70 75 80

Val Pro Lys Pro Gly Ser Pro Glu Pro Gln Val Ser Gly Leu Ala Ala
85 90 95

Asn Arg Ser Leu Thr Glu Gly Leu Val Leu Gly His Asn Xaa
100 105 110

<210> 5860

<211> 198

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5860

Pro Xaa Arg Pro Arg Gly Ala Ala Ala Ala Ala Ala Ala Ala Gly Ala

5150

1	5	10	15
Ala Met Pro Lys Gly Gly Arg Lys Gly Gly His Lys Gly Arg Ala Arg	20	25	30
Gln Tyr Thr Ser Pro Glu Glu Ile Asp Ala Gln Leu Gln Ala Glu Lys	35	40	45
Gln Lys Ala Arg Glu Glu Glu Glu Gln Lys Glu Gly Gly Asp Gly Ala	50	55	60
Ala Gly Asp Pro Lys Lys Glu Lys Lys Ser Leu Asp Ser Asp Glu Ser	65	70	75
Glu Asp Glu Glu Asp Asp Tyr Gln Gln Lys Arg Lys Gly Val Glu Gly	85	90	95
Leu Ile Asp Ile Glu Asn Pro Asn Arg Val Ala Gln Thr Thr Lys Lys	100	105	110
Val Thr Gln Leu Asp Leu Asp Gly Pro Lys Glu Leu Ser Arg Arg Glu	115	120	125
Arg Glu Glu Ile Glu Lys Gln Lys Ala Lys Glu Arg Tyr Met Lys Met	130	135	140
His Leu Ala Gly Lys Thr Glu Gln Ala Lys Ala Asp Leu Ala Arg Leu	145	150	155
Ala Ile Ile Arg Lys Gln Arg Glu Glu Ala Ala Arg Lys Lys Glu Glu	165	170	175
Glu Arg Lys Ala Lys Asp Asp Ala Thr Leu Ser Gly Lys Arg Met Gln	180	185	190
Ser Leu Ser Leu Asn Lys	195		

<210> 5861

<211> 63

<212> PRT

<213> Homo sapiens

<400> 5861

Lys Asn Lys Thr Lys Ala Val Phe Pro Asn Phe Gly Met Asn Pro Pro	1	5	10	15
Leu Phe Gln Met Lys Thr Ala Ser Arg Ser Ser Ser Lys Arg Lys Ser	20	25	30	

5151

Leu Gly Gly Ala Gln Arg Ala Arg Cys Pro Ser Thr Ser Val Leu Gly
 35 40 45

Thr Trp Arg Val Ala Ala Ser Pro Pro Ala Pro Val Pro Ser Cys
 50 55 60

<210> 5862

<211> 229

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5862

Ala Thr Lys Ile Asn Leu Ser Leu Ser Ala Leu Gly Asn Val Ile Ser
 1 5 10 15

Ala Leu Val Asp Gly Lys Ser Thr His Ile Pro Tyr Arg Asp Ser Lys
 20 25 30

Leu Thr Arg Leu Leu Gln Asp Ser Leu Gly Gly Asn Ala Lys Thr Val
 35 40 45

Met Val Ala Asn Val Gly Pro Ala Ser Tyr Asn Val Glu Glu Thr Leu
 50 55 60

Thr Thr Leu Arg Tyr Ala Asn Arg Ala Lys Asn Ile Lys Asn Lys Pro
 65 70 75 80

Arg Val Asn Glu Asp Pro Lys Asp Ala Leu Leu Arg Glu Phe Gln Glu
 85 90 95

Glu Ile Ala Arg Leu Lys Ala Gln Leu Glu Lys Arg Ser Ile Gly Arg
 100 105 110

Arg Lys Arg Arg Glu Lys Arg Arg Glu Gly Gly Gly Ser Gly Gly Gly
 115 120 125

Gly Glu Glu Glu Glu Glu Glu Gly Glu Glu Gly Glu Glu Glu Gly Asp
 130 135 140

Asp Lys Asp Asp Tyr Trp Arg Glu Gln Gln Glu Lys Leu Glu Ile Glu
 145 150 155 160

Lys Arg Ala Ile Val Glu Asp His Ser Leu Val Ala Glu Glu Lys Met

170

Lys Asp Leu Leu Lys Leu Phe Thr Thr Met Glu Leu Met Arg Trp Ser
145 150 155 160

5153

Thr Leu Val Glu Asp Tyr Gly Met Glu Leu Arg Lys Gly Ser Leu Glu
 165 170 175

Ser Pro Ala Thr Asp Val Phe Gly Ser Thr Glu Glu Gly Glu Lys Arg
 180 185 190

Trp Lys Asp Leu Lys Asn Arg Val Val Glu His Asn Ile Arg Ile Met
 195 200 205

Ala Lys Tyr Tyr Thr Arg Ile Thr Met Lys Arg Met Ala Gln Leu Leu
 210 215 220

Asp Leu Ser Val Asp Glu Ser Glu Ala Phe Leu Ser Asn Leu Val Val
 225 230 235 240

Asn Lys Thr Ile Phe Ala Lys Val Asp Arg Leu Ala Gly Ile Ile Asn
 245 250 255

Phe Gln Arg Pro Lys Asp Pro Asn Asn Leu Leu Asn Asp Trp Ser Gln
 260 265 270

Lys Leu Asn Ser Leu Met Ser Leu Val Asn Lys Thr Thr His Leu Ile
 275 280 285

Ala Lys Glu Glu Met Ile His Asn Leu Gln
 290 295

<210> 5864

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5864

Asn Ser Ala Glu Cys Asn Pro Arg Phe Xaa Asn Ala Thr Ile Val Cys
 1 5 10 15

Asn Ser Leu Asp Gly Ser Asn Trp Gly Gln Glu Gln Arg Glu Asp His
 20 25 30

Leu Cys Phe Ser Pro Gly Ser Glu Val Lys Val Arg Ser Lys Gly Glu
 35 40 45

Arg Ala Leu Gly Val Met Ser Arg Gly Gly Pro Arg Trp Lys Arg Ala

5154

50 55 60
 Trp Pro Gly Thr Gln Trp Leu Ala Leu Phe Glu Pro Ser Gly Thr Ala
 65 70 75 80
 Leu Ala His Phe Gln Gly Leu Leu Pro Pro Leu Thr Pro Ser Leu Pro
 85 90 95
 Thr Val His Ser Asp Leu
 100

<210> 5865
 <211> 345
 <212> PRT
 <213> Homo sapiens

<400> 5865
 Leu Pro Val Arg Ala Glu Pro Thr Arg Ala Ala Ala Met Ser Gly Asp
 1 5 10 15
 Glu Met Ile Phe Asp Pro Thr Met Ser Lys Lys Lys Lys Lys Lys Lys
 20 25 30
 Lys Pro Phe Met Leu Asp Glu Glu Gly Asp Thr Gln Thr Glu Glu Thr
 35 40 45
 Gln Pro Ser Glu Thr Lys Glu Val Glu Pro Glu Pro Thr Glu Asp Lys
 50 55 60
 Asp Leu Glu Ala Asp Glu Glu Asp Thr Arg Lys Lys Asp Ala Ser Asp
 65 70 75 80
 Asp Leu Asp Asp Leu Asn Phe Phe Asn Gln Lys Lys Lys Lys Lys Lys
 85 90 95
 Thr Lys Lys Ile Phe Asp Ile Asp Glu Ala Glu Glu Gly Val Lys Asp
 100 105 110
 Leu Lys Ile Glu Ser Asp Val Gln Glu Pro Thr Glu Pro Glu Asp Asp
 115 120 125
 Leu Asp Ile Met Leu Gly Asn Lys Lys Lys Lys Lys Lys Asn Val Lys
 130 135 140
 Phe Pro Asp Glu Asp Glu Ile Leu Glu Lys Asp Glu Ala Leu Glu Asp
 145 150 155 160
 Glu Asp Asn Lys Lys Asp Asp Gly Ile Ser Phe Ser Asn Gln Thr Gly
 165 170 175

5155

```

Pro Ala Trp Ala Gly Ser Glu Arg Asp Tyr Thr Tyr Glu Glu Leu Leu
      180                      185                      190

Asn Arg Val Phe Asn Ile Met Arg Glu Lys Asn Pro Asp Met Val Ala
      195                      200                      205

Gly Glu Lys Arg Lys Phe Val Met Lys Pro Pro Gln Val Val Arg Val
      210                      215                      220

Gly Thr Lys Lys Thr Ser Phe Val Asn Phe Thr Asp Ile Cys Lys Leu
      225                      230                      235                      240

Leu His Arg Gln Pro Lys His Leu Leu Ala Phe Leu Leu Ala Glu Leu
      245                      250                      255

Gly Thr Ser Gly Ser Ile Asp Gly Asn Asn Gln Leu Val Ile Lys Gly
      260                      265                      270

Arg Phe Gln Gln Lys Gln Ile Glu Asn Val Leu Arg Arg Tyr Ile Lys
      275                      280                      285

Glu Tyr Val Thr Cys His Thr Cys Arg Ser Pro Asp Thr Ile Leu Gln
      290                      295                      300

Lys Asp Thr Arg Leu Tyr Phe Leu Gln Cys Glu Thr Cys His Ser Arg
      305                      310                      315                      320

Cys Ser Val Ala Ser Ile Lys Thr Gly Phe Gln Ala Val Thr Gly Lys
      325                      330                      335

Arg Ala Gln Leu Arg Ala Lys Ala Asn
      340                      345

```

<210> 5866

<211> 194

<212> PRT

<213> Homo sapiens

<400> 5866

```

Arg Thr Ser Met Gly Ile Leu Tyr Ser Glu Pro Ile Cys Gln Ala Ala
  1                      5                      10                      15

Tyr Gln Asn Asp Phe Gly Gln Val Trp Arg Trp Val Lys Glu Asp Ser
      20                      25                      30

Ser Tyr Ala Asn Val Gln Asp Gly Phe Asn Gly Asp Thr Pro Leu Ile
      35                      40                      45

```

5156

Cys Ala Cys Arg Arg Gly His Val Arg Ile Val Ser Phe Leu Leu Arg
 50 55 60
 Arg Asn Ala Asn Val Asn Leu Lys Asn Gln Lys Glu Arg Thr Cys Leu
 65 70 75 80
 His Tyr Ala Val Lys Lys Lys Phe Thr Phe Ile Asp Tyr Leu Leu Ile
 85 90 95
 Ile Leu Leu Met Pro Val Leu Leu Ile Gly Tyr Phe Leu Met Val Ser
 100 105 110
 Lys Thr Lys Gln Asn Glu Ala Leu Val Arg Met Leu Leu Asp Ala Gly
 115 120 125
 Val Glu Val Asn Ala Thr Asp Cys Tyr Gly Cys Thr Ala Leu His Tyr
 130 135 140
 Ala Cys Glu Met Lys Asn Gln Ser Leu Ile Pro Leu Leu Leu Glu Ala
 145 150 155 160
 Arg Ala Asp Pro Thr Ile Lys Asn Lys His Gly Glu Ser Ser Leu Asp
 165 170 175
 Ile Ala Arg Arg Leu Lys Phe Ser Gln Ile Glu Leu Met Leu Arg Lys
 180 185 190
 Ala Leu

<210> 5867

<211> 469

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

5157

<220>

<221> SITE

<222> (436)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5867

Ser Ala Ser Phe Ser Arg Gly Xaa Gln Leu Ser Phe Thr Asp Leu Gly
 1 5 10 15

Leu Pro Pro Thr Asp His Leu Gln Ala Ser Phe Gly Phe Gln Thr Phe
 20 25 30

Gln Pro Ser Gly Ile Leu Leu Asp His Gln Thr Trp Thr Arg Xaa Leu
 35 40 45

Gln Val Thr Leu Glu Asp Gly Tyr Ile Glu Leu Ser Thr Ser Asp Ser
 50 55 60

Xaa Gly Pro Ile Phe Lys Ser Pro Gln Thr Tyr Met Asp Gly Leu Leu
 65 70 75 80

His Tyr Val Ser Val Ile Ser Asp Asn Ser Gly Leu Arg Leu Leu Ile
 85 90 95

Asp Asp Gln Leu Leu Arg Asn Ser Lys Arg Leu Lys His Ile Ser Ser
 100 105 110

Ser Arg Gln Ser Leu Arg Leu Gly Gly Ser Asn Phe Glu Gly Cys Ile
 115 120 125

Ser Asn Val Phe Val Gln Arg Leu Ser Leu Ser Pro Glu Val Leu Asp
 130 135 140

Leu Thr Ser Asn Ser Leu Lys Arg Asp Val Ser Leu Gly Gly Cys Ser
 145 150 155 160

Leu Asn Lys Pro Pro Phe Leu Met Leu Leu Lys Gly Ser Thr Arg Phe
 165 170 175

Asn Lys Thr Lys Thr Phe Arg Ile Asn Gln Leu Leu Gln Asp Thr Pro
 180 185 190

Val Ala Ser Pro Arg Ser Val Lys Val Trp Gln Asp Ala Cys Ser Pro
 195 200 205

Leu Pro Lys Thr Gln Ala Asn His Gly Ala Leu Gln Phe Gly Asp Ile
 210 215 220

Pro Thr Ser His Leu Leu Phe Lys Leu Pro Gln Glu Leu Leu Lys Pro
 225 230 235 240

5158

Arg Ser Gln Phe Ala Val Asp Met Gln Thr Thr Ser Ser Arg Gly Leu
 245 250 255
 Val Phe His Thr Gly Thr Lys Asn Ser Phe Met Ala Leu Tyr Leu Ser
 260 265 270
 Lys Gly Arg Leu Val Phe Ala Leu Gly Thr Asp Gly Lys Lys Leu Arg
 275 280 285
 Ile Lys Ser Lys Glu Lys Cys Asn Asp Gly Lys Trp His Thr Val Val
 290 295 300
 Phe Gly His Asp Gly Glu Lys Gly Arg Leu Val Val Asp Gly Leu Arg
 305 310 315 320
 Ala Arg Glu Gly Ser Leu Pro Gly Asn Ser Thr Ile Ser Ile Arg Ala
 325 330 335
 Pro Val Tyr Leu Gly Ser Pro Pro Ser Gly Lys Pro Lys Ser Leu Pro
 340 345 350
 Thr Asn Ser Phe Val Gly Cys Leu Lys Asn Phe Gln Leu Asp Ser Lys
 355 360 365
 Pro Leu Tyr Thr Pro Ser Ser Ser Phe Gly Val Ser Ser Cys Leu Gly
 370 375 380
 Gly Pro Leu Glu Lys Gly Ile Tyr Phe Ser Glu Glu Gly Gly His Val
 385 390 395 400
 Val Leu Ala His Ser Val Leu Leu Gly Pro Glu Phe Lys Leu Val Phe
 405 410 415
 Ser Ile Arg Pro Arg Ser Leu Thr Gly Ile Leu Ile His Ile Gly Ser
 420 425 430
 Gln Pro Gly Xaa Ala Leu Met Cys Leu Pro Gly Gly Arg Lys Gly His
 435 440 445
 Gly Leu Tyr Gly Gln Trp Gly Arg Trp Asp Leu Asn Val Gly His Thr
 450 455 460
 Lys Ala Val Ser Val
 465

<210> 5868

<211> 83

<212> PRT

5159

<213> Homo sapiens

<400> 5868

```

Phe Leu Ile Leu Ser Gly Glu Leu Leu Ala Arg Ile Ile Tyr Leu Gln
 1             5             10             15

Ile Ile Leu Asp Gln Arg Leu Gly Ala Gly Leu Thr Pro Ser Ser Arg
          20             25             30

Leu Gly Ala Ser Ile His Phe Leu Val Gly Leu Asn Ile Pro Pro Ala
          35             40             45

Phe Arg Arg Ile His Arg Thr Tyr Cys Ser Phe Gln Met Thr Phe Trp
          50             55             60

Lys Ile Val Pro Phe Ala Asn Arg Asn Met Pro Glu Gly Ile Phe Ser
 65             70             75             80

Ser Phe Ile

```

<210> 5869

<211> 117

<212> PRT

<213> Homo sapiens

<400> 5869

```

Ser Cys Thr Arg His Gln Ser Leu Pro Gly Ser Cys Asp Glu Leu His
 1             5             10             15

Leu Ser Pro Phe Leu Pro Gln Pro Gln Thr Leu Ser Phe Lys Glu Gly
          20             25             30

Leu Pro Gly Ser Leu His Pro Thr Ala Pro Met Arg Leu Gly Pro Arg
          35             40             45

Val His Ser Pro Gly Gly Ser Gln Leu Ser Gly Arg Ser Phe Pro Pro
          50             55             60

Asn Ile Phe Gln Leu Leu Gly Gly Asp His Arg Ala Leu Leu Leu Lys
 65             70             75             80

Ile Trp Leu Leu Gln Arg Pro Glu Ser Gln Glu Gly Leu Leu Pro Gly
          85             90             95

Arg Leu Val Val Met Glu Arg Arg Val Lys Met Thr Ser Cys Pro Ser
          100            105            110

Cys Pro Arg Phe Cys

```

5160

115

<210> 5870

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5870

Arg	Thr	Tyr	Phe	Pro	Val	Lys	Met	Pro	Thr	Thr	Lys	Lys	Thr	Leu	Met
1				5					10					15	

Phe	Leu	Ser	Ser	Phe	Phe	Thr	Ser	Leu	Gly	Ser	Phe	Ile	Val	Ile	Cys
			20					25					30		

Ser	Ile	Leu	Gly	Thr	Gln	Ala	Trp	Ile	Thr	Ser	Thr	Ile	Ala	Xaa	Arg
		35					40					45			

Asp	Ser	Ala	Ser	Asn	Gly	Ser	Ile	Phe	Ile	Thr	Tyr	Gly	Leu	Phe	Arg
	50					55					60				

Gly	Glu	Ser	Ser	Glu	Glu	Leu	Ser	His	Gly	Leu	Ala	Glu	Pro	Lys	Lys
65					70					75					80

Lys	Phe	Ala	Val	Leu	Glu	Ile	Leu	Asn	Asn	Ser	Ser	Gln	Lys	Asn	Ser
				85					90					95	

Ala	Phe	Gly	Asp	Tyr	Pro	Val	Pro	Gly	Pro	Glu	Phe	Asp	His	Val	Ala
			100					105					110		

Ala	Glu	Leu	Trp	Val	Tyr	Leu	Leu	Gln	Gln	His	Gln	Gln	Pro	Leu	Pro
		115					120					125			

Asp	Ile	Pro	Gly	Ala	Arg	Arg	Gly	Cys	Thr	Pro	Gly	Thr	Gly	Ser	Gly
	130					135					140				

5161

Ile Leu Arg Phe Xaa Thr Met Ile Leu Leu Xaa Arg Thr Arg Ser Pro
 145 150 155 160

Thr Asn Phe Pro Lys Val Val Gln Met Leu
 165 170

<210> 5871

<211> 173

<212> PRT

<213> Homo sapiens

<400> 5871

Arg Thr Tyr Phe Pro Val Lys Met Pro Thr Thr Lys Lys Thr Leu Met
 1 5 10 15

Phe Leu Ser Ser Phe Phe Thr Ser Leu Gly Ser Phe Ile Val Ile Cys
 20 25 30

Ser Ile Leu Gly Thr Gln Ala Trp Ile Thr Ser Thr Ile Ala Val Arg
 35 40 45

Asp Ser Ala Ser Asn Gly Ser Ile Phe Ile Thr Tyr Gly Leu Phe Arg
 50 55 60

Gly Glu Ser Ser Glu Glu Leu Ser His Gly Leu Ala Glu Pro Lys Lys
 65 70 75 80

Lys Phe Ala Ala Ser Phe Val Phe Val Thr Met Ile Leu Phe Val Ala
 85 90 95

Asn Thr Gln Ser Asn Gln Leu Ser Glu Glu Leu Phe Gln Met Leu Tyr
 100 105 110

Pro Ala Thr Thr Ser Lys Gly Thr Thr His Ser Tyr Gly Tyr Ser Phe
 115 120 125

Trp Leu Ile Leu Leu Val Ile Leu Leu Asn Ile Val Thr Val Thr Ile
 130 135 140

Ile Ile Phe Tyr Gln Lys Ala Arg Tyr Gln Arg Lys Gln Glu Gln Arg
 145 150 155 160

Lys Pro Met Glu Tyr Ala Pro Arg Asp Gly Ile Leu Phe
 165 170

<210> 5872

5162

<211> 132

<212> PRT

<213> Homo sapiens

<400> 5872

His Arg Asn Arg Pro Ser Gln Cys His Leu Leu Asn Leu Trp Arg Pro
 1 5 10 15

Pro Asp Leu Glu Glu Pro Thr Lys Val Asp Lys Leu Gln Glu Pro Leu
 20 25 30

Leu Glu Ala Leu Lys Ile Tyr Ile Arg Lys Arg Arg Pro Ser Lys Pro
 35 40 45

His Met Phe Pro Lys Ile Leu Met Lys Ile Thr Asp Leu Arg Ser Ile
 50 55 60

Ser Ala Lys Gly Ala Glu Arg Val Ile Thr Leu Lys Met Glu Ile Pro
 65 70 75 80

Gly Ser Met Pro Pro Leu Ile Gln Glu Met Leu Glu Asn Ser Glu Gly
 85 90 95

His Glu Pro Leu Thr Pro Ser Ser Ser Gly Asn Thr Ala Glu His Ser
 100 105 110

Pro Ser Ile Ser Pro Ser Ser Val Glu Asn Ser Gly Val Ser Gln Ser
 115 120 125

Pro Leu Val Gln
 130

<210> 5873

<211> 326

<212> PRT

<213> Homo sapiens

<400> 5873

Ala His Ala Ser Ala His Ala Ser Ala Trp Val Pro Ala Pro Gln Arg
 1 5 10 15

Ser Arg Asp Ser Pro Arg Arg Arg Ala Arg Arg Pro Glu Leu Pro Lys
 20 25 30

Pro Ser Arg Ala Ala His Thr Pro Gly Leu His Ser Leu Phe Gln His
 35 40 45

Pro Leu Val Leu Ala Ala Ala Arg Val Pro Glu Thr Glu Leu Pro Gln
 50 55 60

5163

Arg Pro Arg Arg Arg Arg Cys Glu Gly Pro Met Arg Ala Pro Leu Leu
 65 70 75 80
 Pro Pro Ala Pro Val Val Leu Ser Leu Leu Ile Leu Gly Ser Gly His
 85 90 95
 Tyr Ala Ala Gly Leu Asp Leu Asn Asp Thr Tyr Ser Gly Lys Arg Glu
 100 105 110
 Pro Phe Ser Gly Asp His Ser Ala Asp Gly Phe Glu Val Thr Ser Arg
 115 120 125
 Ser Glu Met Ser Ser Gly Ser Glu Ile Ser Pro Val Ser Glu Met Pro
 130 135 140
 Ser Ser Ser Glu Pro Ser Ser Gly Ala Asp Tyr Asp Tyr Ser Glu Glu
 145 150 155 160
 Tyr Asp Asn Glu Pro Gln Ile Pro Gly Tyr Ile Val Asp Asp Ser Val
 165 170 175
 Arg Val Glu Gln Val Val Lys Pro Pro Gln Asn Lys Thr Glu Ser Glu
 180 185 190
 Asn Thr Ser Asp Lys Pro Lys Arg Lys Lys Lys Gly Gly Lys Asn Gly
 195 200 205
 Lys Asn Arg Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe
 210 215 220
 Gln Asn Phe Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu Glu
 225 230 235 240
 Ala Val Thr Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg Cys Gly
 245 250 255
 Glu Lys Ser Met Lys Thr His Ser Met Ile Asp Ser Ser Leu Ser Lys
 260 265 270
 Ile Ala Leu Ala Ala Ile Ala Ala Phe Met Ser Ala Val Ile Leu Thr
 275 280 285
 Ala Val Ala Val Ile Thr Val Gln Leu Arg Arg Gln Tyr Val Arg Lys
 290 295 300
 Tyr Glu Gly Glu Ala Glu Glu Arg Lys Lys Leu Arg Gln Glu Asn Gly
 305 310 315 320
 Asn Val His Ala Ile Ala
 325

5164

<210> 5874

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5874

Ala	Pro	Gln	Arg	Ser	Ser	Leu	Val	Asp	Arg	Val	Arg	Leu	His	Leu	Lys
1				5					10					15	

Lys	Ile	Lys	Ile	Lys	Leu	Phe	Ser	Glu	Glu	Gln	Met	Ser	His	Ser	Ser
			20					25					30		

Asn	Asp	Pro	Leu	Ser	Arg	Asn	Met	Val	Glu	Phe	Ser	Pro	Ile	Gln	Val
		35					40					45			

Ser	His	Ile	Gln	Lys	Thr	Thr	Ser	His	Tyr
	50					55			

<210> 5875

<211> 93

<212> PRT

<213> Homo sapiens

<400> 5875

Gly	Arg	Leu	Trp	Ser	Arg	Glu	Glu	Ala	Met	Ala	Thr	Met	Glu	Asn	Lys
1				5					10					15	

Val	Ile	Cys	Ala	Leu	Val	Leu	Val	Ser	Met	Leu	Ala	Leu	Gly	Thr	Leu
			20					25					30		

Ala	Glu	Ala	Gln	Thr	Glu	Thr	Cys	Thr	Val	Ala	Pro	Arg	Glu	Arg	Gln
		35					40					45			

Asn	Cys	Gly	Phe	Pro	Gly	Val	Thr	Pro	Ser	Gln	Cys	Ala	Asn	Lys	Gly
	50					55					60				

Cys	Cys	Phe	Asp	Asp	Thr	Val	Arg	Gly	Val	Pro	Trp	Cys	Phe	Tyr	Pro
65					70					75					80

Asn	Thr	Ile	Asp	Val	Pro	Pro	Glu	Glu	Glu	Cys	Glu	Phe
				85					90			

<210> 5876

<211> 55

5165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5876

Lys	Val	Pro	Val	Arg	Asn	Ser	Arg	Val	Asp	Pro	Arg	Val	Arg	Ile	Ser
1				5					10					15	

Pro	Arg	Ala	Arg	Leu	Pro	Pro	Xaa	Pro	Asp	Thr	Ser	Asp	Thr	Leu	Leu
			20					25					30		

Gln	Leu	Cys	Leu	Gly	Ser	Gln	His	Arg	Leu	Thr	Ala	Leu	Thr	Leu	Thr
		35					40					45			

Thr	Gln	Asn	Trp	Pro	Lys	Asn
	50					55

<210> 5877

<211> 214

<212> PRT

<213> Homo sapiens

<400> 5877

Ala	Gly	Arg	Pro	Met	Lys	Val	Gly	His	Val	Thr	Glu	Arg	Thr	Asp	Ala
1				5					10					15	

Ser	Ser	Ala	Ser	Ser	Phe	Leu	Asp	Ser	Asp	Glu	Leu	Glu	Arg	Thr	Gly
			20					25					30		

Ile	Asp	Leu	Gly	Thr	Thr	Gly	Arg	Leu	Gln	Leu	Met	Ala	Arg	Leu	Ala
		35					40					45			

Glu	Gly	Thr	Gly	Leu	Gln	Ile	Pro	Pro	Ala	Ala	Gln	Gln	Ala	Leu	Gln
	50					55					60				

Met	Ser	Gly	Ser	Leu	Ala	Phe	Gly	Ala	Val	Ala	Glu	Phe	Ser	Phe	Val
65					70					75					80

Ile	Asp	Leu	Gln	Thr	Arg	Leu	Ser	Gln	Gln	Thr	Glu	Ala	Ser	Ala	Leu
				85					90					95	

Ala	Ala	Ala	Ala	Ser	Val	Gln	Pro	Leu	Ala	Thr	Gln	Cys	Phe	Gln	Leu
			100					105					110		

Ser	Asn	Met	Phe	Asn	Pro	Gln	Thr	Glu	Glu	Glu	Val	Gly	Trp	Asp	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5166

115						120						125					
Glu	Ile	Lys	Asp	Asp	Val	Ile	Glu	Glu	Cys	Asn	Lys	His	Gly	Gly	Val		
130						135						140					
Ile	His	Ile	Tyr	Val	Asp	Lys	Asn	Ser	Ala	Gln	Gly	Asn	Val	Tyr	Val		
145						150						155					
Lys	Cys	Pro	Ser	Ile	Ala	Ala	Ala	Ile	Ala	Ala	Val	Asn	Ala	Leu	His		
165						170						175					
Gly	Arg	Trp	Phe	Ala	Gly	Lys	Met	Ile	Thr	Ala	Ala	Tyr	Val	Pro	Leu		
180						185						190					
Pro	Thr	Tyr	His	Asn	Leu	Phe	Pro	Asp	Ser	Met	Thr	Ala	Thr	Gln	Leu		
195						200						205					
Leu	Val	Pro	Ser	Arg	Arg												
210																	

<210> 5878

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5878

Asn Cys Ser Pro Ala Phe Tyr Gly Ser Ser Leu Pro Cys Pro Gln Thr
1 5 10 15

Gln Gln Lys Arg Arg Gly Arg Ile Arg Gly Leu Ser Arg Pro Ala Pro
20 25 30

Leu Pro Thr Cys His Thr Arg Cys Glu Phe Glu His Ser Pro Xaa Met
35 40 45

Glu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Leu
50 55 60

Pro	Thr	Arg	Arg	Gly	Gln	Arg	Cys	Thr	Arg	Arg	Pro	Ser	Ser	Ser	Pro
65					70					75					80

Ser Ser Ala Pro Ser His Tyr Ser Trp Phe Tyr
85 90

5167

<210> 5879

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5879

Thr	Gln	Lys	Thr	Ser	Ser	Leu	Leu	Pro	Ala	Leu	Ser	Leu	Gln	Leu	Pro
1				5					10				15		

Leu	Leu	Thr	Arg	Phe	Ser	Ile	Met	Cys	Ser	Val	Lys	Glu	Glu	Phe	Trp
			20					25					30		

Arg	Val	Gln	Ser	Ile	Ile	Thr	Glu	Leu	Val	Leu	Lys	Gly	Glu	Phe	Gly
		35					40					45			

Val	Lys	Arg	Gln
	50		

<210> 5880

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5880

Ala	Asp	Asp	Ser	Phe	Phe	Thr	Gly	Ile	Ala	Phe	Xaa	Thr	Ser	Ile	Ser
1				5					10					15	

Val	Asn	Asn	Cys	Val	Cys	His	Phe	Ser	Pro	Leu	Lys	Ser	Asp	Gln	Asp
			20					25					30		

Tyr	Ile	Leu	Lys	Glu	Gly	Asp	Leu	Val	Lys	Met
	35						40			

<210> 5881

<211> 131

<212> PRT

<213> Homo sapiens

<400> 5881

Pro Thr Arg Pro Ala Gln Thr Ala Leu Pro Tyr Ala Met Asn Ser Glu

5168

1	5	10	15
Phe Ser Ser Val Leu Ala Ala Gln Leu Lys His His Ser Glu Asn Lys	20	25	30
Gly Leu Asp Lys Val Met Glu Thr Gln Ala Gln Val Asp Glu Leu Lys	35	40	45
Gly Ile Met Val Arg Asn Ile Asp Leu Val Ala Gln Arg Gly Glu Arg	50	55	60
Leu Glu Leu Leu Ile Asp Lys Thr Glu Asn Leu Val Asp Ser Ser Val	65	70	75
Thr Phe Lys Thr Thr Ser Arg Asn Leu Ala Arg Ala Met Cys Met Lys	85	90	95
Asn Leu Lys Leu Thr Ile Ile Ile Ile Ile Val Ser Ile Val Phe Ile	100	105	110
Tyr Ile Ile Val Ser Pro Leu Cys Gly Gly Phe Thr Trp Pro Ser Cys	115	120	125
Val Lys Lys	130		

<210> 5882

<211> 226

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (197)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5882

Asn Phe Gly Ile Lys Asp Lys Pro Thr Phe Ile Lys Gly Ile Gly Ala	1	5	10	15
Gly Gly Ser Ile Thr Gly Leu Lys Phe Asn Pro Leu Asn Thr Asn Gln	20	25	30	
Phe Tyr Ala Ser Ser Met Glu Gly Thr Thr Arg Leu Gln Asp Phe Lys	35	40	45	
Gly Asn Ile Leu Arg Val Phe Ala Ser Ser Asp Thr Ile Asn Ile Trp	50	55	60	

5169

Phe Cys Ser Leu Asp Val Ser Ala Ser Ser Arg Met Val Val Thr Gly
 65 70 75 80
 Asp Asn Val Gly Asn Val Ile Leu Leu Asn Met Asp Gly Lys Glu Leu
 85 90 95
 Trp Asn Leu Arg Met His Lys Lys Lys Val Thr His Val Ala Leu Asn
 100 105 110
 Pro Cys Cys Asp Trp Phe Leu Ala Thr Ala Ser Val Asp Gln Thr Val
 115 120 125
 Lys Ile Trp Asp Leu Arg Gln Val Arg Gly Lys Ala Ser Phe Leu Tyr
 130 135 140
 Ser Leu Pro His Arg His Pro Val Asn Ala Ala Cys Phe Ser Pro Asp
 145 150 155 160
 Gly Ala Arg Leu Leu Thr Thr Asp Gln Lys Ser Glu Ile Arg Val Tyr
 165 170 175
 Ser Ala Ser Gln Trp Asp Cys Pro Leu Gly Leu Ile Pro His Pro His
 180 185 190
 Arg His Phe Gln Xaa Leu Thr Pro Ile Lys Ala Ala Trp Asp Pro Arg
 195 200 205
 Tyr Asn Leu Ile Val Val Gly Arg Tyr Pro Asp Pro Asn Phe Lys Ser
 210 215 220
 Cys Thr
 225

<210> 5883

<211> 484

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5883

Trp Leu Leu Arg Ser Pro Gly Lys Leu Thr Ala Arg Glu Arg Ile Ser
 1 5 10 15

Leu Leu Leu Asp Pro Gly Ser Phe Xaa Glu Ser Asp Met Phe Val Glu
 20 25 30

5170

His	Arg	Cys	Ala	Asp	Phe	Gly	Met	Ala	Ala	Asp	Lys	Asn	Lys	Phe	Pro	35	40	45
Gly	Asp	Ser	Val	Val	Thr	Gly	Arg	Gly	Arg	Ile	Asn	Gly	Arg	Leu	Val	50	55	60
Tyr	Val	Phe	Ser	Gln	Asp	Phe	Thr	Val	Phe	Gly	Gly	Ser	Leu	Ser	Gly	65	70	75
Ala	His	Ala	Gln	Lys	Ile	Cys	Lys	Ile	Met	Asp	Gln	Ala	Ile	Thr	Val	85	90	95
Gly	Ala	Pro	Val	Ile	Gly	Leu	Asn	Asp	Ser	Gly	Gly	Ala	Arg	Ile	Gln	100	105	110
Glu	Gly	Val	Glu	Ser	Leu	Ala	Gly	Tyr	Ala	Asp	Ile	Phe	Leu	Arg	Asn	115	120	125
Val	Thr	Ala	Ser	Gly	Val	Ile	Pro	Gln	Ile	Ser	Leu	Ile	Met	Gly	Pro	130	135	140
Cys	Ala	Gly	Gly	Ala	Val	Tyr	Ser	Pro	Ala	Leu	Thr	Asp	Phe	Thr	Phe	145	150	155
Met	Val	Lys	Asp	Thr	Ser	Tyr	Leu	Phe	Ile	Thr	Gly	Pro	Asp	Val	Val	165	170	175
Lys	Ser	Val	Thr	Asn	Glu	Asp	Val	Thr	Gln	Glu	Glu	Leu	Gly	Gly	Ala	180	185	190
Lys	Thr	His	Thr	Thr	Met	Ser	Gly	Val	Ala	His	Arg	Ala	Phe	Glu	Asn	195	200	205
Asp	Val	Asp	Ala	Leu	Cys	Asn	Leu	Arg	Asp	Phe	Phe	Asn	Tyr	Leu	Pro	210	215	220
Leu	Ser	Ser	Gln	Asp	Pro	Ala	Pro	Val	Arg	Glu	Cys	His	Asp	Pro	Ser	225	230	235
Asp	Arg	Leu	Val	Pro	Glu	Leu	Asp	Thr	Ile	Val	Pro	Leu	Glu	Ser	Thr	245	250	255
Lys	Ala	Tyr	Asn	Met	Val	Asp	Ile	Ile	His	Ser	Val	Val	Asp	Glu	Arg	260	265	270
Glu	Phe	Phe	Glu	Ile	Met	Pro	Asn	Tyr	Ala	Lys	Asn	Ile	Ile	Val	Gly	275	280	285
Phe	Ala	Arg	Met	Asn	Gly	Arg	Thr	Val	Gly	Ile	Val	Gly	Asn	Gln	Pro	290	295	300

5171

Lys Val Ala Ser Gly Cys Leu Asp Ile Asn Ser Ser Val Lys Gly Ala
 305 310 315 320
 Arg Phe Val Arg Phe Cys Asp Ala Phe Asn Ile Pro Leu Ile Thr Phe
 325 330 335
 Val Asp Val Pro Gly Phe Leu Pro Gly Thr Ala Gln Glu Tyr Gly Gly
 340 345 350
 Ile Ile Arg His Gly Ala Lys Leu Leu Tyr Ala Phe Ala Glu Ala Thr
 355 360 365
 Val Pro Lys Val Thr Val Ile Thr Arg Lys Ala Tyr Gly Gly Ala Tyr
 370 375 380
 Asp Val Met Ser Ser Lys His Leu Cys Gly Asp Thr Asn Tyr Ala Trp
 385 390 395 400
 Pro Thr Ala Glu Ile Ala Val Met Gly Ala Lys Gly Ala Val Glu Ile
 405 410 415
 Ile Phe Lys Gly His Glu Asn Val Glu Ala Ala Gln Ala Glu Tyr Ile
 420 425 430
 Glu Lys Phe Ala Asn Pro Phe Pro Ala Ala Val Arg Gly Phe Val Asp
 435 440 445
 Asp Ile Ile Gln Pro Ser Ser Thr Arg Ala Arg Ile Cys Cys Asp Leu
 450 455 460
 Asp Val Leu Ala Ser Lys Lys Val Gln Arg Pro Trp Arg Lys His Ala
 465 470 475 480
 Asn Ile Pro Leu

<210> 5884

<211> 344

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5172

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (325)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (327)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5884

Asn	Lys	Met	Lys	Ile	Phe	Ser	Glu	Ser	His	Lys	Thr	Val	Phe	Val	Val
1				5					10					15	

Asp	His	Cys	Pro	Tyr	Met	Ala	Glu	Ser	Cys	Arg	Gln	His	Val	Glu	Phe
			20					25					30		

Asp	Met	Leu	Val	Lys	Asn	Arg	Thr	Gln	Gly	Ile	Ile	Pro	Leu	Ala	Pro
		35					40					45			

Ile	Ser	Lys	Ser	Leu	Trp	Thr	Xaa	Ser	Val	Glu	Ser	Ser	Xaa	Glu	Tyr
	50					55					60				

Cys	Arg	Ile	Met	Tyr	Asp	Ile	Phe	Pro	Phe	Lys	Lys	Leu	Val	Asn	Phe
65					70					75					80

Ile	Val	Ser	Asp	Ser	Gly	Ala	His	Val	Leu	Asn	Ser	Trp	Thr	Gln	Glu
				85					90					95	

Asp	Gln	Asn	Leu	Gln	Glu	Leu	Met	Ala	Ala	Leu	Ala	Ala	Xaa	Gly	Pro
		100						105					110		

Pro	Asn	Pro	Arg	Ala	Asp	Pro	Glu	Cys	Cys	Ser	Ile	Leu	His	Gly	Leu
	115						120					125			

Val	Ala	Ala	Val	Glu	Thr	Leu	Cys	Lys	Ile	Thr	Glu	Tyr	Gln	His	Glu
	130					135					140				

Ala	Arg	Thr	Leu	Leu	Met	Glu	Asn	Ala	Glu	Arg	Val	Gly	Asn	Arg	Gly
145					150					155					160

Arg	Ile	Ile	Cys	Ile	Thr	Asn	Ala	Lys	Ser	Asp	Ser	His	Val	Arg	Met
				165					170					175	

5173

Leu Glu Asp Cys Val Gln Glu Thr Ile His Glu His Asn Lys Leu Ala
 180 185 190
 Ala Asn Ser Asp His Leu Met Gln Ile Gln Lys Cys Glu Leu Val Leu
 195 200 205
 Ile His Thr Tyr Pro Val Gly Glu Asp Ser Leu Val Ser Asp Arg Ser
 210 215 220
 Lys Lys Glu Leu Ser Pro Val Leu Thr Ser Glu Val His Ser Val Arg
 225 230 235 240
 Ala Gly Arg His Leu Ala Thr Lys Leu Asn Ile Leu Val Gln Gln His
 245 250 255
 Phe Asp Leu Ala Ser Thr Thr Ile Thr Asn Ile Pro Met Lys Glu Glu
 260 265 270
 Gln His Ala Asn Thr Ser Ala Asn Tyr Asp Val Glu Leu Leu His His
 275 280 285
 Lys Asp Ala His Val Asp Phe Leu Lys Ser Gly Asp Ser His Leu Gly
 290 295 300
 Gly Gly Ser Arg Glu Gly Ser Phe Lys Glu Thr Ile Thr Leu Lys Trp
 305 310 315 320
 Cys Thr Pro Arg Xaa Lys Xaa Thr Leu Cys Phe Leu Leu Phe Gln Glu
 325 330 335
 Leu His Tyr Cys Thr Gly Ala Leu
 340

<210> 5885

<211> 365

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

5174

<220>

<221> SITE

<222> (192)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5885

```

Pro Glu His Ser Trp Ser Ser Ser Ser Ser Thr Lys Arg Trp Thr Glu
 1              5              10              15

Lys Thr Ala Glu Thr Met Gly Pro Pro Ser Ala Pro Pro Cys Arg Leu
              20              25              30

His Val Pro Trp Lys Glu Val Leu Leu Thr Ala Ser Leu Leu Thr Phe
          35              40              45

Trp Asn Pro Pro Thr Thr Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe
          50              55              60

Asn Val Ala Glu Gly Lys Glu Val Leu Leu Leu Ala His Asn Leu Pro
        65              70              75              80

Gln Asn Arg Ile Gly Tyr Ser Trp Tyr Lys Gly Glu Arg Val Asp Gly
              85              90              95

Asn Ser Leu Ile Val Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro
          100              105              110

Gly Pro Ala Tyr Ser Gly Arg Glu Thr Ile Tyr Pro Asn Ala Ser Leu
          115              120              125

Leu Ile Gln Asn Val Thr Gln Asn Asp Thr Gly Phe Tyr Thr Leu Gln
          130              135              140

Val Ile Lys Ser Asp Leu Val Asn Glu Glu Xaa Thr Gly Gln Phe His
          145              150              155              160

Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile Xaa Ser Asn Asn Ser Asn
          165              170              175

Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Xaa
          180              185              190

Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val
          195              200              205

Ser Pro Arg Leu Gln Leu Ser Asn Gly Asn Met Thr Leu Thr Leu Leu
          210              215              220

Ser Val Lys Arg Asn Asp Ala Gly Ser Tyr Glu Cys Glu Ile Gln Asn
          225              230              235              240

```

5175

Pro	Ala	Ser	Ala	Asn	Arg	Ser	Asp	Pro	Val	Thr	Leu	Asn	Val	Leu	Tyr
				245								255			
Gly	Pro	Asp	Gly	Pro	Thr	Ile	Ser	Pro	Ser	Lys	Ala	Asn	Tyr	Arg	Pro
				260								270			
Gly	Glu	Asn	Leu	Asn	Leu	Ser	Cys	His	Ala	Ala	Ser	Asn	Pro	Pro	Ala
				275								285			
Gln	Tyr	Ser	Trp	Phe	Ile	Asn	Gly	Thr	Phe	Gln	Gln	Ser	Thr	Gln	Glu
				290								300			
Leu	Phe	Ile	Pro	Asn	Ile	Thr	Val	Asn	Asn	Ser	Gly	Ser	Tyr	Met	Cys
305				310								315			
Gln	Ala	His	Asn	Ser	Ala	Thr	Gly	Leu	Asn	Arg	Thr	Thr	Val	Thr	Met
				325								335			
Ile	Thr	Val	Ser	Gly	Ser	Ala	Pro	Val	Leu	Ser	Ala	Val	Ala	Thr	Val
				340								350			
Gly	Ile	Thr	Ile	Gly	Val	Leu	Ala	Arg	Val	Ala	Leu	Ile			
				355								365			
				360											

<210> 5886

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5886

Asp Pro Val Ser Glu Glu Gly Glu Gly Leu Ser Cys Xaa Asp Gln Xaa
1 5 10 15

His Arg Asp Pro Leu Gly Arg Gly Ala Gly Arg Ala Lys Lys Arg Thr
20 25 30

Cys Lys Gly Arg Arg Arg Asn Pro Asp Ala Ala Ser Glu Val Gln Ala
35 40 45

5176

His Leu Val Asn Met His Cys His Glu Phe Leu Pro Asp Val Leu Leu
 50 55 60

Phe Ser Phe Thr Tyr Ser Phe Asp Gln Ile Val Cys Gly Leu Asn Lys
 65 70 75 80

Met Lys Ile Ser Ser Pro Leu Phe Leu Gly Asn Thr Leu
 85 90

<210> 5887

<211> 82

<212> PRT

<213> Homo sapiens

<400> 5887

Leu Cys Glu Lys Trp Ala Gln Trp Pro Ser Pro Glu Ile Ser Phe Ile
 1 5 10 15

Leu Gly Gln Glu Phe Asp Glu Val Thr Ala Asp Asp Arg Lys Val Lys
 20 25 30

Ser Thr Ile Thr Leu Asp Gly Gly Val Leu Val His Val Gln Lys Trp
 35 40 45

Asp Gly Lys Ser Thr Thr Ile Lys Arg Lys Arg Glu Asp Asp Lys Leu
 50 55 60

Val Val Glu Cys Val Met Lys Gly Val Thr Ser Thr Arg Val Tyr Glu
 65 70 75 80

Arg Ala

<210> 5888

<211> 102

<212> PRT

<213> Homo sapiens

<400> 5888

Asp Leu His Ser Gln Trp Gly Thr Trp Pro Pro Ile Leu Gly Asp Leu
 1 5 10 15

Arg Lys Arg Thr Ser Pro Trp Gly Glu Gly Trp Val Gly Pro Glu Gly
 20 25 30

Pro Val Pro Ser Ser Val Leu Arg Gly Arg Ala Thr Cys Ser Asn Gly
 35 40 45

5177

Ile Cys Ile Leu Ala Pro Leu His Leu Leu Ser Pro Ala Glu Ser Phe
 50 55 60
 Pro Ser Lys Pro Lys Ser Cys His Cys Phe Phe Leu Pro Gly Lys Asn
 65 70 75 80
 Ala Trp Thr Leu Pro Gly Asp Arg Leu Lys Pro Glu Gln Cys His Thr
 85 90 95
 Leu Ala Leu Ile Pro Cys
 100

<210> 5889
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 5889
 Tyr Pro Leu Phe Thr Ile Met Leu Phe Glu Thr Lys Val Thr Met Tyr
 1 5 10 15
 Thr Ile Leu Leu Glu Glu Val Phe Asp Arg Lys Ser Asn Ile Met Ser
 20 25 30
 Phe Ile Asn Phe Leu Val Leu Lys Lys Ala Val Ile Tyr Ile Tyr Lys
 35 40 45
 Leu Cys Lys
 50

<210> 5890
 <211> 239
 <212> PRT
 <213> Homo sapiens

<400> 5890
 Glu Tyr Gly Ser Pro Ser Val Ile Ser Val Ser Lys Gly Ser Pro Asp
 1 5 10 15
 Gly Ser His Pro Val Val Val Ala Pro Tyr Asn Gly Gly Pro Pro Arg
 20 25 30
 Thr Cys Pro Lys Ile Lys Gln Glu Ala Val Ser Ser Cys Thr His Leu
 35 40 45
 Gly Ala Gly Pro Pro Leu Ser Asn Gly His Arg Pro Ala Ala His Asp

5178

50		55		60											
Phe	Pro	Leu	Gly	Arg	Gln	Leu	Pro	Ser	Arg	Thr	Thr	Pro	Thr	Leu	Gly
65					70					75					80
Leu	Glu	Glu	Val	Leu	Ser	Ser	Arg	Asp	Cys	His	Pro	Ala	Leu	Pro	Leu
				85					90					95	
Pro	Pro	Gly	Phe	His	Pro	His	Pro	Gly	Pro	Asn	Tyr	Pro	Ser	Phe	Leu
			100					105					110		
Pro	Asp	Gln	Met	Gln	Pro	Gln	Val	Pro	Pro	Leu	His	Tyr	Gln	Glu	Leu
		115					120					125			
Met	Pro	Pro	Gly	Ser	Cys	Met	Pro	Glu	Glu	Pro	Lys	Pro	Lys	Arg	Gly
	130					135					140				
Arg	Arg	Ser	Trp	Pro	Arg	Lys	Arg	Thr	Ala	Thr	His	Thr	Cys	Asp	Tyr
145					150					155					160
Ala	Gly	Cys	Gly	Lys	Thr	Tyr	Thr	Lys	Ser	Ser	His	Leu	Lys	Ala	His
				165					170					175	
Leu	Arg	Thr	His	Thr	Gly	Glu	Lys	Pro	Tyr	His	Cys	Asp	Trp	Asp	Gly
			180					185					190		
Cys	Gly	Trp	Lys	Phe	Ala	Arg	Ser	Asp	Glu	Leu	Thr	Arg	His	Tyr	Arg
		195					200					205			
Lys	His	Thr	Gly	His	Arg	Pro	Phe	Gln	Cys	Gln	Lys	Cys	Asp	Arg	Ala
	210					215					220				
Phe	Ser	Arg	Ser	Asp	His	Leu	Ala	Leu	His	Met	Lys	Arg	His	Phe	
225					230					235					

<210> 5891

<211> 269

<212> PRT

<213> Homo sapiens

<400> 5891

Leu	Val	Pro	Asn	Ser	Ala	Arg	Val	Gly	Thr	Arg	Ser	Lys	Gly	Val	Cys
1				5					10					15	
Val	His	Gly	Asn	Ala	Glu	Tyr	Gln	Pro	Gly	Ser	Pro	Val	Tyr	Ser	Ser
			20					25					30		
Lys	Cys	Gln	Asp	Cys	Val	Cys	Thr	Asp	Lys	Val	Asp	Asn	Asn	Thr	Leu
		35					40					45			

5179

Leu Asn Val Ile Ala Cys Thr His Val Pro Cys Asn Thr Ser Cys Ser
 50 55 60
 Pro Gly Phe Glu Leu Met Glu Ala Pro Gly Glu Cys Cys Lys Lys Cys
 65 70 75 80
 Glu Gln Thr His Cys Ile Ile Lys Arg Pro Asp Asn Gln His Val Ile
 85 90 95
 Leu Lys Pro Gly Asp Phe Lys Ser Asp Pro Lys Asn Asn Cys Thr Phe
 100 105 110
 Phe Ser Cys Val Lys Ile His Asn Gln Leu Ile Ser Ser Val Ser Asn
 115 120 125
 Ile Thr Cys Pro Asn Phe Asp Ala Ser Ile Cys Ile Pro Gly Ser Ile
 130 135 140
 Thr Phe Met Pro Asn Gly Cys Cys Lys Thr Cys Thr Pro Arg Asn Glu
 145 150 155 160
 Thr Arg Val Pro Cys Ser Thr Val Pro Val Thr Thr Glu Val Ser Tyr
 165 170 175
 Ala Gly Cys Thr Lys Thr Val Leu Met Asn His Cys Ser Gly Ser Cys
 180 185 190
 Gly Thr Phe Val Met Tyr Ser Ala Lys Ala Gln Ala Leu Asp His Ser
 195 200 205
 Cys Ser Cys Cys Lys Glu Glu Lys Thr Ser Gln Arg Glu Val Val Leu
 210 215 220
 Ser Cys Pro Asn Gly Gly Ser Leu Thr His Thr Tyr Thr His Ile Glu
 225 230 235 240
 Ser Cys Gln Cys Gln Asp Thr Val Cys Gly Leu Pro Thr Gly Thr Ser
 245 250 255
 Arg Arg Ala Arg Arg Ser Pro Arg His Leu Gly Ser Gly
 260 265

<210> 5892

<211> 227

<212> PRT

<213> Homo sapiens

<220>

5180

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5892

Ala	Cys	His	Glu	Lys	Val	Val	Asn	Ile	Gln	Lys	Asp	Pro	Gly	Glu	Ser
1				5					10					15	

Leu	Gly	Met	Thr	Val	Ala	Gly	Gly	Ala	Ser	His	Arg	Xaa	Trp	Asp	Leu
			20					25					30		

Pro	Ile	Tyr	Val	Ile	Ser	Val	Glu	Pro	Gly	Gly	Val	Ile	Ser	Arg	Asp
		35					40					45			

Gly	Arg	Ile	Lys	Thr	Gly	Asp	Ile	Leu	Leu	Asn	Val	Asp	Gly	Val	Glu
	50					55					60				

Leu	Thr	Glu	Val	Ser	Arg	Ser	Glu	Ala	Val	Ala	Leu	Leu	Lys	Arg	Thr
65					70					75					80

Ser	Ser	Ser	Ile	Val	Leu	Lys	Ala	Leu	Glu	Val	Lys	Glu	Tyr	Glu	Pro
				85					90					95	

Gln	Glu	Asp	Cys	Ser	Ser	Pro	Ala	Ala	Leu	Asp	Ser	Asn	His	Asn	Met
			100					105					110		

Ala	Pro	Pro	Ser	Asp	Trp	Ser	Pro	Ser	Trp	Val	Met	Trp	Leu	Glu	Leu
		115					120					125			

Pro	Arg	Cys	Leu	Tyr	Asn	Cys	Lys	Asp	Ile	Val	Leu	Arg	Arg	Asn	Thr
	130					135					140				

Ala	Gly	Ser	Leu	Gly	Phe	Cys	Ile	Val	Gly	Gly	Tyr	Glu	Glu	Tyr	Asn
145					150					155					160

Gly	Asn	Lys	Pro	Phe	Phe	Ile	Lys	Ser	Ile	Val	Glu	Gly	Thr	Pro	Ala
				165					170					175	

Tyr	Asn	Asp	Gly	Arg	Ile	Arg	Cys	Gly	Asp	Ile	Leu	Leu	Ala	Val	Asn
			180					185					190		

Gly	Arg	Ser	Thr	Ser	Gly	Met	Ile	His	Ala	Cys	Leu	Ala	Arg	Leu	Leu
		195					200					205			

Lys	Glu	Leu	Lys	Gly	Arg	Ile	Thr	Leu	Thr	Ile	Val	Ser	Trp	Pro	Gly
	210					215					220				

Thr	Phe	Leu
225		

5181

<210> 5893

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5893

Ser	Ser	His	Phe	Tyr	Ala	Lys	Gln	Glu	Xaa	Ser	Ile	Thr	Leu	Val	Leu
1					5				10					15	

Met	Tyr	Thr	Leu	His	Phe	Asp	Lys	Ile	Asn	Phe	Val	Val	Ser	Phe	Glu
			20					25					30		

Val	Asp	Arg	Cys	Val	Val	Val	Leu	Leu	His	Phe	Leu	Leu	Phe	Cys	Val
	35						40					45			

Trp	Ser	Cys	Ile	Pro	Glu	Thr	Asn	Glu	Ala	Leu	Gly	Tyr	Phe	Ile	Lys
	50					55					60				

Cys	Ser	Asp	Cys	Gln	Gln	Arg	Ala	Gly	Phe	Leu	Phe	Leu	Cys	Cys	Gly
65					70					75					80

Val	Asn	Arg	Thr	Met	Val	Trp	Glu
				85			

<210> 5894

<211> 571

<212> PRT

<213> Homo sapiens

<400> 5894

Arg	Val	Arg	Ser	Lys	Val	Pro	Arg	Cys	Val	Asn	Thr	Gln	Pro	Gly	Phe
1				5					10					15	

His	Cys	Leu	Pro	Cys	Pro	Pro	Arg	Tyr	Arg	Gly	Asn	Gln	Pro	Val	Gly
			20					25					30		

Val	Gly	Leu	Glu	Ala	Ala	Lys	Thr	Glu	Lys	Gln	Val	Cys	Glu	Pro	Glu
	35						40					45			

Asn	Pro	Cys	Lys	Asp	Lys	Thr	His	Asn	Cys	His	Lys	His	Ala	Glu	Cys
	50					55					60				

Ile	Tyr	Leu	Gly	His	Phe	Ser	Asp	Pro	Met	Tyr	Lys	Cys	Glu	Cys	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5182

65		70		75		80
Thr Gly Tyr Ala Gly Asp Gly Leu Ile Cys Gly Glu Asp Ser Asp Leu						
	85		90		95	
Asp Gly Trp Pro Asn Leu Asn Leu Val Cys Ala Thr Asn Ala Thr Tyr						
	100		105		110	
His Cys Ile Lys Asp Asn Cys Pro His Leu Pro Asn Ser Gly Gln Glu						
	115		120		125	
Asp Phe Asp Lys Asp Gly Ile Gly Asp Ala Cys Asp Asp Asp Asp Asp						
	130		135		140	
Asn Asp Gly Val Thr Asp Glu Lys Asp Asn Cys Gln Leu Leu Phe Asn						
	145		150		155	160
Pro Arg Gln Ala Asp Tyr Asp Lys Asp Glu Val Gly Asp Arg Cys Asp						
	165		170		175	
Asn Cys Pro Tyr Val His Asn Pro Ala Gln Ile Asp Thr Asp Asn Asn						
	180		185		190	
Gly Glu Gly Asp Ala Cys Ser Val Asp Ile Asp Gly Asp Asp Val Phe						
	195		200		205	
Asn Glu Arg Asp Asn Cys Pro Tyr Val Tyr Asn Thr Asp Gln Arg Asp						
	210		215		220	
Thr Asp Gly Asp Gly Val Gly Asp His Cys Asp Asn Cys Pro Leu Val						
	225		230		235	240
His Asn Pro Asp Gln Thr Asp Val Asp Asn Asp Leu Val Gly Asp Gln						
	245		250		255	
Cys Asp Asn Asn Glu Asp Ile Asp Asp Asp Gly His Gln Asn Asn Gln						
	260		265		270	
Asp Asn Cys Pro Tyr Ile Ser Asn Ala Asn Gln Ala Asp His Asp Arg						
	275		280		285	
Asp Gly Gln Gly Asp Ala Cys Asp Pro Asp Asp Asp Asn Asp Gly Val						
	290		295		300	
Pro Asp Asp Arg Asp Asn Cys Arg Leu Val Phe Asn Pro Asp Gln Glu						
	305		310		315	320
Asp Leu Asp Gly Asp Gly Arg Gly Asp Ile Cys Lys Asp Asp Phe Asp						
	325		330		335	
Asn Asp Asn Ile Pro Asp Ile Asp Asp Val Cys Pro Glu Asn Asn Ala						

5183

340	345	350
Ile Ser Glu Thr Asp Phe Arg Asn Phe Gln Met Val Pro Leu Asp Pro		
355	360	365
Lys Gly Thr Thr Gln Ile Asp Pro Asn Trp Val Ile Arg His Gln Gly		
370	375	380
Lys Glu Leu Val Gln Thr Ala Asn Ser Asp Pro Gly Ile Ala Val Gly		
385	390	395
Phe Asp Glu Phe Gly Ser Val Asp Phe Ser Gly Thr Phe Tyr Val Asn		
405	410	415
Thr Asp Arg Asp Asp Asp Tyr Ala Gly Phe Val Phe Gly Tyr Gln Ser		
420	425	430
Ser Ser Arg Phe Tyr Val Val Met Trp Lys Gln Val Thr Gln Thr Tyr		
435	440	445
Trp Glu Asp Gln Pro Thr Arg Ala Tyr Gly Tyr Ser Gly Val Ser Leu		
450	455	460
Lys Val Val Asn Ser Thr Thr Gly Thr Gly Glu His Leu Arg Asn Ala		
465	470	475
Leu Trp His Thr Gly Asn Thr Pro Gly Gln Val Arg Thr Leu Trp His		
485	490	495
Asp Pro Arg Asn Ile Gly Trp Lys Asp Tyr Thr Ala Tyr Arg Trp His		
500	505	510
Leu Thr His Arg Pro Lys Thr Gly Tyr Ile Arg Val Leu Val His Glu		
515	520	525
Gly Lys Gln Val Met Ala Asp Ser Gly Pro Ile Tyr Asp Gln Thr Tyr		
530	535	540
Ala Gly Gly Arg Leu Gly Leu Phe Val Phe Ser Gln Glu Met Val Tyr		
545	550	555
Phe Ser Asp Leu Lys Tyr Glu Cys Arg Asp Ile		
565	570	

<210> 5895

<211> 59

<212> PRT

<213> Homo sapiens

5184

<400> 5895

```

Asn Phe Leu Asn Glu Met Ile Asn Arg Trp Asn Leu Lys Tyr Ile Leu
 1             5             10             15

Leu Gln Lys Arg Phe Leu Ser Leu Leu Tyr Phe Asp Asp Cys Phe Leu
          20             25             30

Lys Ile Lys Ile Cys Ser Cys Ser Phe Ile Arg Leu Phe Lys Leu Cys
          35             40             45

Phe Pro Leu Ile Phe Phe His His Cys Ile Tyr
          50             55

```

<210> 5896

<211> 176

<212> PRT

<213> Homo sapiens

<400> 5896

```

Arg Pro Thr Arg Pro Ser Arg Asp Cys Glu Gly Glu Arg Ser Lys Pro
 1             5             10             15

Arg Arg Arg Trp Lys Gly Trp Arg Thr His Leu Asn Met Trp Asn Pro
          20             25             30

Asn Ala Gly Gln Pro Gly Pro Asn Pro Tyr Pro Pro Asn Ile Gly Cys
          35             40             45

Pro Gly Gly Ser Asn Pro Ala His Pro Pro Pro Ile Asn Pro Pro Phe
          50             55             60

Pro Pro Gly Pro Cys Pro Pro Pro Pro Gly Ala Pro His Gly Asn Pro
          65             70             75             80

Ala Phe Pro Pro Gly Gly Pro Pro His Pro Val Pro Gln Pro Gly Tyr
          85             90             95

Pro Gly Cys Gln Pro Leu Gly Pro Tyr Pro Pro Pro Tyr Pro Pro Pro
          100             105             110

Ala Pro Gly Ile Pro Pro Val Asn Pro Leu Ala Pro Gly Met Val Gly
          115             120             125

Pro Ala Val Ile Val Asp Lys Lys Met Gln Lys Lys Met Lys Lys Ala
          130             135             140

His Lys Lys Met His Lys His Gln Lys His His Lys Tyr His Lys His
          145             150             155             160

```

5185

Gly Lys His Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Asp Ser Asp
165 170 175

<210> 5897

<211> 205

<212> PRT

<213> Homo sapiens

<400> 5897

Leu Gly Gly Cys Arg Asp Val Pro Ser Leu Thr Leu Leu Ser Thr Val
1 5 10 15

Ala Gly Ala Leu Ile Ala Asp Phe Leu Ser Gly Leu Val His Trp Gly
20 25 30

Ala Asp Thr Trp Gly Ser Val Glu Leu Pro Ile Val Gly Lys Ala Phe
35 40 45

Ile Arg Pro Phe Arg Glu His His Ile Asp Pro Thr Ala Ile Thr Arg
50 55 60

His Asp Phe Ile Glu Thr Asn Gly Asp Asn Cys Leu Val Thr Leu Leu
65 70 75 80

Pro Leu Leu Asn Met Ala Tyr Lys Phe Arg Thr His Ser Pro Glu Ala
85 90 95

Leu Glu Gln Leu Tyr Pro Trp Glu Cys Phe Val Phe Cys Leu Ile Ile
100 105 110

Phe Gly Thr Phe Thr Asn Gln Ile His Lys Trp Ser His Thr Tyr Phe
115 120 125

Gly Leu Pro Arg Trp Val Thr Leu Leu Gln Asp Trp His Val Ile Leu
130 135 140

Pro	Arg	Lys	His	His	Arg	Ile	His	His	Val	Ser	Pro	His	Glu	Thr	Tyr
145					150					155					160

Phe Cys Ile Thr Thr Gly Trp Leu Asn Tyr Pro Leu Glu Lys Ile Gly
165 170 175

Phe Trp Arg Arg Leu Glu Asp Leu Ile Gln Gly Leu Thr Gly Glu Lys
180 185 190

Pro Arg Ala Asp Asp Met Lys Trp Ala Gln Lys Ile Lys

5186

195

200

205

<210> 5898

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5898

Lys	Trp	Leu	Leu	Val	Asn	Phe	Asp	Cys	Ser	Ala	Met	Trp	Val	Lys	Lys
1				5					10					15	

Arg	Thr	Asp	Leu	Thr	Gly	Ala	Phe	Arg	Leu	Asp	Pro	Thr	Tyr	Leu	Lys
			20					25					30		

His	Ser	His	Gln	Asp	Ser	Gly	Leu	Ile	Thr	Asp	Tyr	Arg	His	Trp	Gln
		35					40					45			

Ile	Pro	Leu	Gly	Arg	Arg	Phe	Arg	Ser	Leu	Lys	Met	Trp	Phe	Val	Phe
	50					55					60				

Arg	Met	Tyr	Gly	Val	Lys	Gly	Leu	Gln	Ala	Tyr	Ile	Arg	Lys	His	Val
65					70					75					80

Gln	Leu	Ser	Xaa	Xaa	Phe	Glu	Ser	Leu	Val	Arg	Gln	Gly	Ser	Pro	Leu
			85						90					95	

<210> 5899

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

5187

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5899

```

Leu Xaa His Pro Phe Ala Val Thr Ser Tyr Gly Lys Asn Leu Tyr Phe
 1              5              10              15

Thr Asp Trp Lys Met Asn Ser Val Val Ala Leu Asp Leu Ala Ile Ser
          20              25              30

Lys Glu Thr Asp Ala Phe Gln Pro His Lys Gln Thr Arg Leu Tyr Gly
          35              40              45

Ile Thr Thr Ala Leu Ser Gln Cys Pro Gln Gly His Asn Tyr Cys Ser
          50              55              60

Val Asn Asn Gly Gly Cys Thr His Leu Cys Leu Ala Thr Pro Gly Ser
          65              70              75              80

Arg Thr Cys Arg Cys Pro Asp Asn Thr Leu Gly Val Asp Cys Ile Glu
          85              90              95

Gln Lys

```

<210> 5900

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5900

```

Glu Ile Ser Ala Phe Leu Ile Ser Ser Asn Tyr Lys Arg Thr Ala Val
 1              5              10              15

Phe Phe His Thr His Leu Pro Glu Gly Arg Ile Gly Ser His Ile Tyr
          20              25              30

Val Tyr Glu Arg Lys Leu Lys Gly Lys Phe Asn Met Lys Met Lys Phe
          35              40              45

```

<210> 5901

<211> 87

<212> PRT

<213> Homo sapiens

5188

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5901
 Ser Ser Leu Gly Lys Leu Asp His Gln Xaa Phe Ser Leu Asp Arg Val
 1 5 10 15
 Ser Leu Val Asn Lys Gly Asp Thr Gly Asn Pro Glu Trp Thr Val Ile
 20 25 30
 Cys Val Gly Xaa His Ser Gly Ser Gly Ala Ser Asp Thr Leu Xaa Pro
 35 40 45
 Lys Thr Ala Pro Ser Phe Arg Leu Ala Tyr Glu Met Met Phe Met Cys
 50 55 60
 Phe Leu Glu Thr Arg Trp Lys Glu Arg Gly Arg Ile Asn Phe Leu Ile
 65 70 75 80
 Leu Leu Leu Leu Asn Val Met
 85

<210> 5902
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 5902
 Leu Asn Trp Leu Leu Gln Gly Glu Gly Gln Lys Ala Arg Pro Ser Ala
 1 5 10 15
 Leu Glu Ser Arg Pro Glu Val Ser Gly Lys Leu Thr Leu Lys Met Asp
 20 25 30
 Thr Pro Gln Pro Ala Leu Pro Phe Gly Leu Pro Arg Ile Ser Phe Ser
 35 40 45

5189

Gly Cys Ser His Thr Cys Ala Ile Thr Ser Ser Ser Met Thr Trp Thr
 50 55 60

Gly Thr Ser Leu Thr Ile Pro Ile Gly Ile Thr Arg Ala Thr Asn Tyr
 65 70 75 80

Ala Val Phe

<210> 5903

<211> 269

<212> PRT

<213> Homo sapiens

<400> 5903

Arg Arg Cys Cys His Ser Ala Thr Met Phe Glu Ala Arg Leu Val Gln
 1 5 10 15

Gly Ser Ile Leu Lys Lys Val Leu Glu Ala Leu Lys Asp Leu Ile Asn
 20 25 30

Glu Ala Cys Trp Asp Ile Ser Ser Ser Gly Val Asn Leu Gln Ser Met
 35 40 45

Asp Ser Ser His Val Ser Leu Val Gln Leu Thr Leu Arg Ser Glu Gly
 50 55 60

Phe Asp Thr Tyr Arg Cys Asp Arg Asn Leu Ala Met Gly Val Asn Leu
 65 70 75 80

Thr Ser Met Ser Lys Ile Leu Lys Cys Ala Gly Asn Glu Asp Ile Ile
 85 90 95

Thr Leu Arg Ala Glu Asp Asn Ala Asp Thr Leu Ala Leu Val Phe Glu
 100 105 110

Ala Pro Asn Gln Glu Lys Val Ser Asp Tyr Glu Met Lys Leu Met Asp
 115 120 125

Leu Asp Val Glu Gln Leu Gly Ile Pro Glu Gln Glu Tyr Ser Cys Val
 130 135 140

Val Lys Met Pro Ser Gly Glu Phe Ala Arg Ile Cys Arg Asp Leu Ser
 145 150 155 160

His Ile Gly Asp Ala Val Val Ile Ser Cys Ala Lys Asp Gly Val Lys
 165 170 175

Phe Ser Ala Ser Gly Glu Leu Gly Asn Gly Asn Ile Lys Leu Ser Gln

5190

180	185	190
Thr Ser Asn Val Asp Lys Glu Glu Glu Ala Val Thr Ile Glu Met Asn		
195	200	205
Glu Pro Val Gln Leu Thr Phe Ala Leu Arg Tyr Leu Asn Phe Phe Thr		
210	215	220
Lys Ala Thr Pro Leu Ser Ser Thr Val Thr Leu Ser Met Ser Ala Asp		
225	230	235
Val Pro Leu Val Val Glu Tyr Lys Ile Ala Asp Met Gly His Leu Lys		
245	250	255
Tyr Tyr Leu Ala Pro Lys Ile Glu Asp Glu Glu Gly Ser		
260	265	

<210> 5904

<211> 211

<212> PRT

<213> Homo sapiens

<400> 5904

Asn Lys Met Lys Lys Val Arg Leu Lys Glu Leu Glu Ser Arg Leu Gln		
1	5	10
Gln Val Asp Gly Phe Glu Lys Pro Lys Leu Leu Leu Glu Gln Tyr Pro		
20	25	30
Thr Arg Pro His Ile Ala Ala Cys Met Leu Tyr Thr Ile His Asn Thr		
35	40	45
Tyr Asp Asp Ile Glu Asn Lys Val Val Ala Asp Leu Gly Cys Gly Cys		
50	55	60
Gly Val Leu Ser Ile Gly Thr Ala Met Leu Gly Ala Gly Leu Cys Val		
65	70	75
Gly Phe Asp Ile Asp Glu Asp Ala Leu Glu Ile Phe Asn Arg Asn Ala		
85	90	95
Glu Glu Phe Glu Leu Thr Asn Ile Asp Met Val Gln Cys Asp Val Cys		
100	105	110
Leu Leu Ser Asn Arg Met Ser Lys Ser Phe Asp Thr Val Ile Met Asn		
115	120	125
Pro Pro Phe Gly Thr Lys Asn Asn Lys Gly Thr Asp Met Ala Phe Leu		
130	135	140

5191

Lys Thr Ala Leu Glu Met Ala Arg Thr Ala Val Tyr Ser Leu His Lys
 145 150 155 160

Ser Ser Thr Arg Glu His Val Gln Lys Lys Ala Ala Glu Trp Lys Ile
 165 170 175

Lys Ile Asp Ile Ile Ala Glu Leu Arg Tyr Asp Leu Pro Ala Ser Tyr
 180 185 190

Lys Phe His Lys Lys Lys Ser Val Asp Ile Glu Val Asp Leu Ile Arg
 195 200 205

Phe Ser Phe
 210

<210> 5905

<211> 77

<212> PRT

<213> Homo sapiens

<400> 5905

Lys Phe Leu Leu Lys Val Asn Phe Pro Glu Asn Gly Phe Leu Ser Pro
 1 5 10 15

Asp Lys Leu Ser Leu Leu Glu Lys Leu Leu Pro Glu Arg Lys Glu Val
 20 25 30

Glu Glu Thr Asp Glu Met Asp Gln Val Glu Leu Val Asp Phe Asp Pro
 35 40 45

Asn Gln Glu Arg Arg Arg His Tyr Asn Gly Glu Ala Tyr Glu Asp Asp
 50 55 60

Glu His His Pro Arg Gly Gly Val Gln Cys Gln Thr Ser
 65 70 75

<210> 5906

<211> 142

<212> PRT

<213> Homo sapiens

<400> 5906

Ser Trp Glu Thr Glu Lys Met Gln Thr Ala Gly Ala Leu Phe Ile Ser
 1 5 10 15

Pro Ala Leu Ile Arg Cys Cys Thr Arg Gly Leu Ile Arg Pro Val Ser

5192

	20		25		30
Ala Ser Phe Leu Asn Ser Pro Val Asn Ser Ser Lys Gln Pro Ser Tyr					
35		40		45	
Ser Asn Phe Pro Leu Gln Val Ala Arg Arg Glu Phe Gln Thr Ser Val					
50		55		60	
Val Ser Arg Asp Ile Asp Thr Ala Ala Lys Phe Ile Gly Ala Gly Ala					
65		70		75	80
Ala Thr Val Gly Val Ala Gly Ser Gly Ala Gly Ile Gly Thr Val Phe					
	85		90		95
Gly Ser Leu Ile Ile Gly Tyr Ala Arg Asn Pro Ser Leu Lys Gln Gln					
	100		105		110
Leu Phe Ser Tyr Ala Ile Leu Gly Phe Ala Leu Ser Glu Ala Met Gly					
	115		120		125
Leu Phe Cys Leu Met Val Ala Phe Leu Ile Leu Phe Ala Met					
	130		135		140

<210> 5907

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5907

Thr Cys Pro Phe Leu Gln Glu Phe Ser Leu Gly Met Trp Ser Cys Leu
1 5 10 15

His Ala Val Leu Glu Leu Ile Asp Ser Gln Gln Gln Asp Arg Tyr Trp
20 25 30

Cys Pro Pro Xaa Leu His Arg Ala Ala Ile Ala Phe Leu His Ala Leu
35 40 45

Trp Gln Asp Arg Arg Asp Ser Ala Met Leu Val Leu Arg Thr Lys
50 55 60

<210> 5908

5193

<211> 61
 <212> PRT
 <213> Homo sapiens

<400> 5908
 Arg Asn Lys Gly Val Arg Ala Asn Ile Gln Gln Leu Leu Ser Pro Val
 1 5 10 15
 Met Lys Phe Ile Gln Thr Lys Asp Gly Met Ser Leu Tyr Ile Ile Pro
 20 25 30
 Cys Asn Lys Tyr Ser Val Lys Leu Cys Trp Cys Asn Leu Thr Cys Phe
 35 40 45
 Cys Gln Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 50 55 60

<210> 5909
 <211> 466
 <212> PRT
 <213> Homo sapiens

<400> 5909
 Val Ser Pro Arg Ala Gly Gly Ala Gly Asn Asn Arg Gly Arg Ala His
 1 5 10 15
 Arg Ala Ser Ser Cys Ser Leu Pro Ala Pro Pro Ala Thr Leu Asp Pro
 20 25 30
 Arg Ile Pro Pro Ala Arg Leu Pro Ala Met Ala Asp Lys Glu Ala Ala
 35 40 45
 Phe Asp Asp Ala Val Glu Glu Arg Val Ile Asn Glu Glu Tyr Lys Ile
 50 55 60
 Trp Lys Lys Asn Thr Pro Phe Leu Tyr Asp Leu Val Met Thr His Ala
 65 70 75 80
 Leu Glu Trp Pro Ser Leu Thr Ala Gln Trp Leu Pro Asp Val Thr Arg
 85 90 95
 Pro Glu Gly Lys Asp Phe Ser Ile His Arg Leu Val Leu Gly Thr His
 100 105 110
 Thr Ser Asp Glu Gln Asn His Leu Val Ile Ala Ser Val Gln Leu Pro
 115 120 125
 Asn Asp Asp Ala Gln Phe Asp Ala Ser His Tyr Asp Ser Glu Lys Gly
 130 135 140

5194

Glu	Phe	Gly	Gly	Phe	Gly	Ser	Val	Ser	Gly	Lys	Ile	Glu	Ile	Glu	Ile		
145					150					155					160		
Lys	Ile	Asn	His	Glu	Gly	Glu	Val	Asn	Arg	Ala	Arg	Tyr	Met	Pro	Gln		
				165					170					175			
Asn	Pro	Cys	Ile	Ile	Ala	Thr	Lys	Thr	Pro	Ser	Ser	Asp	Val	Leu	Val		
			180					185					190				
Phe	Asp	Tyr	Thr	Lys	His	Pro	Ser	Lys	Pro	Asp	Pro	Ser	Gly	Glu	Cys		
	195						200					205					
Asn	Pro	Asp	Leu	Arg	Leu	Arg	Gly	His	Gln	Lys	Glu	Gly	Tyr	Gly	Leu		
	210					215					220						
Ser	Trp	Asn	Pro	Asn	Leu	Ser	Gly	His	Leu	Leu	Ser	Ala	Ser	Asp	Asp		
225					230					235					240		
His	Thr	Ile	Cys	Leu	Trp	Asp	Ile	Ser	Ala	Val	Pro	Lys	Glu	Gly	Lys		
				245					250					255			
Val	Val	Asp	Ala	Lys	Thr	Ile	Phe	Thr	Gly	His	Thr	Ala	Val	Val	Glu		
			260					265					270				
Asp	Val	Ser	Trp	His	Leu	Leu	His	Glu	Ser	Leu	Phe	Gly	Ser	Val	Ala		
	275						280					285					
Asp	Asp	Gln	Lys	Leu	Met	Ile	Trp	Asp	Thr	Arg	Ser	Asn	Asn	Thr	Ser		
	290					295					300						
Lys	Pro	Ser	His	Ser	Val	Asp	Ala	His	Thr	Ala	Glu	Val	Asn	Cys	Leu		
305					310					315					320		
Ser	Phe	Asn	Pro	Tyr	Ser	Glu	Phe	Ile	Leu	Ala	Thr	Gly	Ser	Ala	Asp		
				325					330					335			
Lys	Thr	Val	Ala	Leu	Trp	Asp	Leu	Arg	Asn	Leu	Lys	Leu	Lys	Leu	His		
			340					345					350				
Ser	Phe	Glu	Ser	His	Lys	Asp	Glu	Ile	Phe	Gln	Val	Gln	Trp	Ser	Pro		
	355						360					365					
His	Asn	Glu	Thr	Ile	Leu	Ala	Ser	Ser	Gly	Thr	Asp	Arg	Arg	Leu	Asn		
	370					375					380						
Val	Trp	Asp	Leu	Ser	Lys	Ile	Gly	Glu	Glu	Gln	Ser	Pro	Glu	Asp	Ala		
385					390					395					400		
Glu	Asp	Gly	Pro	Pro	Glu	Leu	Leu	Phe	Ile	His	Gly	Gly	His	Thr	Ala		
				405					410					415			

5195

Lys Ile Ser Asp Phe Ser Trp Asn Pro Asn Glu Pro Trp Val Ile Cys
 420 425 430

Ser Val Ser Glu Asp Asn Ile Met Gln Val Trp Gln Met Ala Glu Asn
 435 440 445

Ile Tyr Asn Asp Glu Asp Pro Glu Gly Ser Val Asp Pro Glu Gly Gln
 450 455 460

Gly Ser
 465

<210> 5910

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5910

Leu Leu Pro His Pro Phe Ser Cys Val His Val Ala Phe Ser Asn Pro
 1 5 10 15

Gly Gln Trp Phe Leu Pro Arg Pro Cys Thr Glu Ala Gly Cys Leu Pro
 20 25 30

Asp Pro Arg Arg Val Arg Glu Gly Arg Gly Ile Leu Leu Leu Glu Leu
 35 40 45

Gln Ala Leu Ala Glu Ala Val Ser His Thr Val Val Ser Ser Ala Trp
 50 55 60

Ala Gly Thr
 65

<210> 5911

<211> 212

<212> PRT

<213> Homo sapiens

<400> 5911

Glu Ile Ile Thr Asp Arg Gln Ser Gly Lys Lys Arg Gly Phe Gly Phe
 1 5 10 15

Val Thr Phe Asp Asp His Asp Pro Val Asp Lys Ile Val Leu Gln Lys
 20 25 30

Tyr His Thr Ile Asn Gly His Asn Ala Glu Val Arg Lys Ala Leu Ser

5196

35	40	45
Arg Gln Glu Met Gln Glu Val Gln Ser Ser Arg Ser Gly Arg Gly Gly		
50	55	60
Asn Phe Gly Phe Gly Asp Ser Arg Gly Gly Gly Gly Asn Phe Gly Pro		
65	70	75
Gly Pro Gly Ser Asn Phe Arg Gly Gly Ser Asp Gly Tyr Gly Ser Gly		
	85	90
Arg Gly Phe Gly Asp Gly Tyr Asn Gly Tyr Gly Gly Gly Pro Gly Gly		
	100	105
Gly Asn Phe Gly Gly Ser Pro Gly Tyr Gly Gly Gly Arg Gly Gly Tyr		
	115	120
Gly Gly Gly Gly Pro Gly Tyr Gly Asn Gln Gly Gly Gly Tyr Gly Gly		
	130	135
Gly Tyr Asp Asn Tyr Gly Gly Gly Asn Tyr Gly Ser Gly Asn Tyr Asn		
145	150	155
Asp Phe Gly Asn Tyr Asn Gln Gln Pro Ser Asn Tyr Gly Pro Met Lys		
	165	170
Ser Gly Asn Phe Gly Gly Ser Arg Asn Met Gly Gly Pro Tyr Gly Gly		
	180	185
Gly Asn Tyr Gly Pro Gly Gly Ser Gly Gly Ser Gly Gly Tyr Gly Gly		
	195	200
Arg Ser Arg Tyr		
210		

<210> 5912

<211> 385

<212> PRT

<213> Homo sapiens

<400> 5912

His Leu Glu Pro Ala Gln Leu Val Ser Lys Lys His Lys Leu Arg Ser
1 5 10 15
Gln Lys Arg Pro Arg Arg Cys Leu Trp Leu His Gln Ser Ser Arg Arg
20 25 30
Thr Trp Leu Gly Pro Arg Arg Gly His Pro Leu Cys Arg Cys Pro Pro
35 40 45

5197

Arg	Arg	Pro	Trp	Leu	Trp	Leu	Asp	Arg	Ser	Gln	Lys	Leu	Thr	Ser	Ser		
	50					55					60						
Ala	Ser	Ser	Pro	Ser	Gln	Pro	Tyr	Ser	Val	Gln	Pro	Leu	His	Leu	Pro		
	65				70					75					80		
Asp	Gly	Trp	Ala	Asp	Pro	Ala	Gly	Leu	Arg	Leu	Arg	Gly	Val	Phe	Leu		
				85					90					95			
Cys	Leu	Pro	Arg	Val	Leu	Gln	Arg	Arg	Cys	Pro	Pro	Gly	Val	Pro	Asn		
			100					105					110				
Thr	Ser	Arg	Ala	Val	Gln	Glu	Ala	Ser	Gly	Arg	Gly	Arg	Ala	Ala	Arg		
		115					120					125					
His	Arg	Asn	Ser	Leu	Gln	Arg	Pro	Cys	Ser	Arg	Ser	Gln	Ser	Pro	Gly		
	130					135					140						
Gly	Glu	Glu	Gly	Met	Ala	Arg	Ala	Tyr	Ala	Val	Val	Cys	Asp	Cys	Lys		
	145				150					155					160		
Leu	Phe	Leu	Tyr	Asp	Leu	Pro	Glu	Gly	Lys	Ser	Thr	Gln	Pro	Gly	Val		
				165					170					175			
Ile	Ala	Ser	Gln	Val	Leu	Asp	Leu	Arg	Asp	Asp	Glu	Phe	Ser	Val	Ser		
			180					185					190				
Ser	Val	Leu	Ala	Ser	Asp	Val	Ile	His	Ala	Thr	Arg	Arg	Asp	Ile	Pro		
		195					200					205					
Cys	Ile	Phe	Arg	Val	Thr	Ala	Ser	Leu	Leu	Gly	Ala	Pro	Ser	Lys	Thr		
	210					215					220						
Ser	Ser	Leu	Leu	Ile	Leu	Thr	Glu	Asn	Glu	Asn	Glu	Lys	Arg	Lys	Trp		
	225				230					235					240		
Val	Gly	Ile	Leu	Glu	Gly	Leu	Gln	Ser	Ile	Leu	His	Lys	Asn	Arg	Leu		
				245					250					255			
Arg	Asn	Gln	Val	Val	His	Val	Pro	Leu	Glu	Ala	Tyr	Asp	Ser	Ser	Leu		
			260					265					270				
Pro	Leu	Ile	Lys	Ala	Ile	Leu	Thr	Ala	Ala	Ile	Val	Asp	Ala	Asp	Arg		
		275					280					285					
Ile	Ala	Val	Gly	Leu	Glu	Glu	Gly	Leu	Tyr	Val	Ile	Glu	Val	Thr	Arg		
	290					295					300						
Asp	Val	Ile	Val	Arg	Ala	Ala	Asp	Cys	Lys	Lys	Val	His	Gln	Ile	Glu		
	305				310					315					320		

5198

Leu Ala Pro Arg Glu Lys Ile Val Ile Leu Leu Cys Gly Arg Asn His
 325 330 335

His Val His Leu Tyr Pro Trp Ser Ser Leu Asp Gly Ala Glu Gly Ser
 340 345 350

Phe Asp Ile Lys Leu Pro Glu Thr Lys Gly Cys Gln Leu Met Ala Thr
 355 360 365

Ala Thr Leu Lys Arg Asn Ser Gly Thr Cys Leu Phe Val Ala Val Lys
 370 375 380

Arg
 385

<210> 5913

<211> 39

<212> PRT

<213> Homo sapiens

<400> 5913

Thr Gln Ser Lys Trp Arg Leu Glu Val Gln Cys Gly Lys Glu Lys Gln
 1 5 10 15

Val Phe Ile Glu Ser Thr Asn Ser Thr Pro Phe Ile Asp Thr Glu Asn
 20 25 30

Val Glu Asn Pro Lys Phe Asp
 35

<210> 5914

<211> 321

<212> PRT

<213> Homo sapiens

<400> 5914

Glu Arg Thr Leu Gly Gln Pro Gly Phe Leu Gly Cys Pro Arg Gln Pro
 1 5 10 15

His Thr Ala Met His Tyr Pro Thr Ala Leu Leu Phe Leu Ile Leu Ala
 20 25 30

Asn Gly Ala Gln Ala Phe Arg Ile Cys Ala Phe Asn Ala Gln Arg Leu
 35 40 45

Thr Leu Ala Lys Val Ala Arg Glu Gln Val Met Asp Thr Leu Val Arg

5199

[illegible]

5200

<210> 5915
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 5915
 Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Glu Asn Arg Pro Val Pro
 1 5 10 15
 Pro His Arg Ser Ser Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro
 20 25 30
 Cys Trp Pro Gly Trp Ser
 35

<210> 5916
 <211> 359
 <212> PRT
 <213> Homo sapiens

<400> 5916
 Ile Asn Leu Glu Glu Val Gly Thr Ile Cys Leu Gly Phe Phe Lys Ser
 1 5 10 15
 Ser Thr Asn Leu Ser Glu Phe Val Met Arg Lys Ile Gly Asp Leu Ala
 20 25 30
 Cys Ala Asn Ile Gln His Leu Ser Ser Arg Ser Leu Val Asn Ile Val
 35 40 45
 Lys Met Phe Arg Phe Thr His Val Asp His Ile Asn Phe Met Lys Gln
 50 55 60
 Ile Gly Glu Ile Ala Pro Gln Arg Ile Pro Ser Leu Gly Val Gln Gly
 65 70 75 80
 Val Met His Leu Thr Leu Tyr Cys Ser Ala Leu Arg Phe Leu Asn Glu
 85 90 95
 Gly Val Met Asn Ala Val Ala Ala Ser Leu Pro Pro Arg Val Ala His
 100 105 110
 Cys Arg Ser Lys Asp Val Ala Lys Ile Leu Trp Ser Phe Gly Thr Leu
 115 120 125

[illegible]

```
<210> 5917
<211> 82
<212> PRT
<213> Homo sapiens
```

5202

<400> 5917

Phe Gly Leu Phe Cys Thr Leu Tyr Lys Trp Thr His Ile Met Phe Ile
 1 5 10 15

Phe Trp Val Cys Leu Leu Ser Phe Asn Ile Arg Phe Val Gly Ser Ser
 20 25 30

Leu Leu Cys Val Val Leu Ser Cys Ser Leu Tyr Ser Val Pro Lys Tyr
 35 40 45

Ser Ile Leu Gln Phe Thr His Ser Thr Leu Asp Ser Lys Cys Phe His
 50 55 60

Ile Trp Ala Ile Thr Asn Ser Ala Ala Val Asn Ile His Ile His Ile
 65 70 75 80

Phe Trp

<210> 5918

<211> 111

<212> PRT

<213> Homo sapiens

<400> 5918

Ala Phe Leu Pro Ala Gly Pro Ser Gly Phe Pro Ser Gly Pro Gly Cys
 1 5 10 15

Val Trp Lys Cys His Leu Gly Ala Arg Ala Trp Met Ser Ala Ser Gly
 20 25 30

Leu Cys Leu Ala Pro Tyr Pro Thr Val Ala Glu Leu Val Tyr Lys Leu
 35 40 45

Gln Asp Ser Leu Leu Tyr Ser Ser Ser Ser Ser Pro Val Ala Glu Arg
 50 55 60

Arg Asn Leu Ser Gln Ser Cys Glu Leu Tyr Cys Leu Gly Leu Gly Glu
 65 70 75 80

Gly Trp His Lys His Ser Leu Ser His Pro Gly Trp Cys Leu Thr Asn
 85 90 95

Leu Cys Ala Pro Gln Val His Trp Leu Gln Gly Gln Arg Ser Thr
 100 105 110

5203

<210> 5919

<211> 441

<212> PRT

<213> Homo sapiens

<400> 5919

Arg	Arg	Arg	Arg	Ala	Cys	Arg	Ser	Ala	Glu	Gly	Thr	Gly	Leu	Arg	Ser
1				5					10					15	

Leu	Leu	Leu	Pro	Pro	Arg	Leu	Gln	Leu	Pro	Ala	Gly	Pro	Phe	Ser	Arg
			20				25						30		

Cys	Arg	Trp	Asp	Pro	Val	Ser	Ser	Pro	Arg	Pro	Ser	Thr	Met	Pro	Pro
	35						40					45			

Lys	Lys	Gly	Gly	Asp	Gly	Ile	Lys	Pro	Pro	Pro	Ile	Ile	Gly	Arg	Phe
50						55					60				

Gly	Thr	Ser	Leu	Lys	Ile	Gly	Ile	Val	Gly	Leu	Pro	Asn	Val	Gly	Lys
65					70					75					80

Ser	Thr	Phe	Phe	Asn	Val	Leu	Thr	Asn	Ser	Gln	Ala	Ser	Ala	Glu	Asn
				85				90						95	

Phe	Pro	Phe	Cys	Thr	Ile	Asp	Pro	Asn	Glu	Ser	Arg	Val	Pro	Val	Pro
			100					105					110		

Asp	Glu	Arg	Phe	Asp	Phe	Leu	Cys	Gln	Tyr	His	Lys	Pro	Ala	Ser	Lys
		115					120					125			

Ile	Pro	Ala	Phe	Leu	Asn	Val	Val	Asp	Ile	Ala	Gly	Leu	Val	Lys	Gly
130						135					140				

Ala	His	Asn	Gly	Gln	Gly	Leu	Gly	Asn	Ala	Phe	Leu	Ser	His	Ile	Ser
145					150					155					160

Ala	Cys	Asp	Gly	Ile	Phe	His	Leu	Thr	Arg	Ala	Phe	Glu	Asp	Asp	Asp
				165					170					175	

Ile	Thr	His	Val	Glu	Gly	Ser	Val	Asp	Pro	Ile	Arg	Asp	Ile	Glu	Ile
			180					185					190		

Ile	His	Glu	Glu	Leu	Gln	Leu	Lys	Asp	Glu	Glu	Met	Ile	Gly	Pro	Ile
		195					200					205			

Ile	Asp	Lys	Leu	Glu	Lys	Val	Ala	Val	Arg	Gly	Gly	Asp	Lys	Lys	Leu
210						215					220				

Lys	Pro	Glu	Tyr	Asp	Ile	Met	Cys	Lys	Val	Lys	Ser	Trp	Val	Ile	Asp
225					230					235					240

Gln	Lys	Lys	Pro	Val	Arg	Phe	Tyr	His	Asp	Trp	Asn	Asp	Lys	Glu	Ile
				245								255			
Glu	Val	Leu	Asn	Lys	His	Leu	Phe	Leu	Thr	Ser	Lys	Pro	Met	Val	Tyr
				260								270			
Leu	Val	Asn	Leu	Ser	Glu	Lys	Asp	Tyr	Ile	Arg	Lys	Lys	Asn	Lys	Trp
				275								285			
Leu	Ile	Lys	Ile	Lys	Glu	Trp	Val	Asp	Lys	Tyr	Asp	Pro	Gly	Ala	Leu
				295								300			
Val	Ile	Pro	Phe	Ser	Gly	Ala	Leu	Glu	Leu	Lys	Leu	Gln	Glu	Leu	Ser
305				310								320			
Ala	Glu	Glu	Arg	Gln	Lys	Tyr	Leu	Glu	Ala	Asn	Met	Thr	Gln	Ser	Ala
				325								335			
Leu	Pro	Lys	Ile	Ile	Lys	Ala	Gly	Phe	Ala	Ala	Leu	Gln	Leu	Glu	Tyr
				340								350			
Phe	Phe	Thr	Ala	Gly	Pro	Asp	Glu	Val	Arg	Ala	Trp	Thr	Ile	Arg	Lys
				355								365			
Gly	Thr	Lys	Ala	Pro	Gln	Ala	Ala	Gly	Lys	Ile	His	Thr	Asp	Phe	Glu
				375								380			
Lys	Gly	Phe	Ile	Met	Ala	Glu	Val	Met	Lys	Tyr	Glu	Asp	Phe	Lys	Glu
385				390								400			
Glu	Gly	Ser	Glu	Asn	Ala	Val	Lys	Ala	Ala	Gly	Lys	Tyr	Arg	Gln	Gln
				405								415			
Gly	Arg	Asn	Tyr	Ile	Val	Glu	Asp	Gly	Asp	Ile	Ile	Phe	Phe	Lys	Phe
				420								430			
Asn	Thr	Pro	Gln	Gln	Pro	Lys	Lys	Lys							
				435								440			

<400> 5920

Cys Ile Cys Ile Gln Arg Gln Val Pro Pro Val Pro Ala Ala Arg Ala

20					25					30						
Pro	Gln	Ser	Arg	Thr	Arg	Ser	Ala	Gln	Ala	Lys	Leu	Ala	Leu	Thr	Met	
		35					40					45				
Pro	Val	Lys	Gly	Gly	Thr	Lys	Cys	Ile	Lys	Tyr	Leu	Leu	Phe	Gly	Phe	
		50					55					60				
Asn	Phe	Ile	Phe	Trp	Leu	Ala	Gly	Ile	Ala	Val	Leu	Ala	Ile	Gly	Leu	
		65					70					75				
Trp	Leu	Arg	Phe	Asp	Ser	Gln	Thr	Lys	Ser	Ile	Phe	Glu	Gln	Glu	Thr	
				85							90					
Asn	Asn	Asn	Asn	Ser	Ser	Phe	Tyr	Thr	Gly	Val	Tyr	Ile	Leu	Ile	Gly	
Ala	Gly	Ala	Leu	Met	Met	Leu	Val	Gly	Phe	Leu	Gly	Cys	Cys	Gly	Ala	
Val	Gln	Glu	Ser	Gln	Cys	Met	Leu	Gly	Leu	Phe	Phe	Gly	Phe	Leu	Leu	
Val	Ile	Phe	Ala	Ile	Glu	Ile	Ala	Ala	Ala	Ile	Trp	Gly	Tyr	Ser	His	
Lys	Asp	Glu	Val	Ile	Lys	Glu	Val	Gln	Glu	Phe	Tyr	Lys	Asp	Thr	Tyr	
Asn	Lys	Leu	Lys	Thr	Lys	Asp	Glu	Pro	Gln	Arg	Glu	Thr	Leu	Lys	Ala	
Ile	His	Tyr	Ala	Leu	Asn	Cys	Cys	Gly	Leu	Ala	Gly	Gly	Val	Glu	Gln	
Phe	Ile	Ser	Asp	Ile	Cys	Pro	Lys	Lys	Asp	Val	Leu	Glu	Thr	Phe	Thr	
Val	Lys	Ser	Cys	Pro	Asp	Ala	Ile	Lys	Glu	Val	Phe	Asp	Asn	Lys	Phe	
His	Ile	Ile	Gly	Ala	Val	Gly	Ile	Gly	Ile	Ala	Val	Val	Met	Ile	Phe	
Gly	Met	Ile	Phe	Ser	Met	Ile	Leu	Cys	Cys	Ala	Ile	Arg	Arg	Asn	Arg	
Glu	Met	Val														

5206

<210> 5921

<211> 115

<212> PRT

<213> Homo sapiens

<400> 5921

Val	Gly	Cys	Arg	Pro	Leu	Ser	Ser	Cys	His	Leu	Leu	Ala	Val	Ala	Arg
1				5				10					15		

Ser	Tyr	Phe	Ser	Leu	Ser	Gly	Val	Ile	Cys	Ile	Trp	Arg	Phe	His	Cys
			20					25					30		

Cys	Phe	Ser	Leu	Ser	Tyr	Leu	Glu	Trp	Asn	Pro	Glu	Ser	Cys	Pro	Phe
		35					40					45			

Pro	Pro	Thr	Cys	Ser	Tyr	Leu	Lys	Ala	Pro	Glu	Thr	Tyr	Trp	Val	Pro
		50				55					60				

Asp	Ser	Cys	Phe	Val	Cys	Ile	Arg	Arg	Val	Val	Ala	Cys	His	Leu	Ala
65					70					75					80

Cys	Phe	Leu	Asn	Asn	Pro	Thr	Ser	Cys	Pro	Pro	Cys	Thr	Tyr	Ile	Ala
				85					90					95	

Thr	Ala	Leu	Ile	Trp	Ala	Phe	Phe	Phe	Leu	Gly	Gln	Cys	Leu	Cys	Pro
			100					105					110		

Asn	Ser	Glu
		115

<210> 5922

<211> 291

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (217)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5922

His	Gly	Leu	Cys	Arg	Leu	Phe	Asn	Ser	Pro	Leu	Lys	Pro	Leu	Ala	Asp
1					5				10					15	

5207

Leu Asp Pro Val Val Val Thr Phe Trp Tyr Arg Ala Pro Glu Leu Leu
 20 25 30

Leu Gly Ala Arg His Tyr Thr Lys Ala Ile Asp Ile Trp Ala Ile Gly
 35 40 45

Cys Ile Phe Ala Glu Leu Leu Thr Ser Glu Pro Xaa Phe His Cys Arg
 50 55 60

Gln Glu Asp Ile Lys Thr Ser Asn Pro Tyr His His Asp Gln Leu Asp
 65 70 75 80

Arg Ile Phe Asn Val Met Gly Phe Pro Ala Asp Lys Asp Trp Glu Asp
 85 90 95

Ile Lys Lys Met Pro Glu His Ser Thr Leu Met Lys Asp Phe Arg Arg
 100 105 110

Asn Thr Tyr Thr Asn Cys Ser Leu Ile Lys Tyr Met Glu Lys His Lys
 115 120 125

Val Lys Pro Asp Ser Lys Ala Phe His Leu Leu Gln Lys Leu Leu Thr
 130 135 140

Met Asp Pro Ile Lys Arg Ile Thr Ser Glu Gln Ala Met Gln Asp Pro
 145 150 155 160

Tyr Phe Leu Glu Asp Pro Leu Pro Thr Ser Asp Val Phe Ala Gly Cys
 165 170 175

Gln Ile Pro Tyr Pro Lys Arg Glu Phe Leu Thr Glu Glu Glu Pro Asp
 180 185 190

Asp Lys Gly Asp Lys Lys Asn Gln Gln Gln Gln Gly Asn Asn His
 195 200 205

Thr Asn Gly Thr Gly His Pro Gly Xaa Gln Asp Ser Ser His Thr Gln
 210 215 220

Gly Pro Pro Leu Lys Lys Val Arg Val Val Pro Pro Thr Thr Thr Ser
 225 230 235 240

Gly Gly Leu Ile Met Thr Ser Asp Tyr Gln Arg Ser Asn Pro His Ala
 245 250 255

Ala Tyr Pro Asn Pro Gly Pro Ser Thr Ser Gln Pro Gln Ser Ser Met
 260 265 270

Gly Tyr Ser Ala Thr Ser Gln Gln Pro Pro Gln Tyr Ser His Gln Thr
 275 280 285

5208

His Arg Tyr
290

<210> 5923
<211> 100
<212> PRT
<213> Homo sapiens

<400> 5923

Arg Pro Pro Ser Arg Trp Ser Trp Trp Gln Gly Lys Pro Thr Gly Gly
1 5 10 15

Val Cys Val Ala Ala Ala Arg Ser Ser Pro Ser Val Thr Ala Pro Thr
20 25 30

Ser Ser Asn Ala Leu Ala Tyr Leu His Ser Ser Ser Arg Pro Lys Arg
35 40 45

Pro Ala Trp Trp His Ser Val Pro Ala Arg Pro Leu Arg Gly Pro Arg
50 55 60

Thr Ala Met Ala Pro Thr Gly Val Ser Ala Cys Arg Arg Gln Lys Trp
65 70 75 80

Ala Pro His Ser Glu Gly Ala Ala Ala Val Gln Pro Gln Val Ala Leu
85 90 95

Ala Pro Gly Leu
100

<210> 5924
<211> 241
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5209

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5924

Tyr	Arg	Pro	Gly	Pro	Leu	Thr	Ser	Gln	Gly	Met	Asn	Xaa	Ser	Arg	Gln
1				5					10					15	

Xaa	Pro	Xaa	Leu	Asn	Leu	Leu	Pro	Ser	Ser	Ala	His	Phe	Arg	Pro	Ser
			20					25					30		

Thr	Tyr	Lys	Lys	Ser	Ser	Gly	Pro	Leu	Lys	Ala	Xaa	Lys	Leu	Ile	Ile
		35					40					45			

His	Trp	Asn	Cys	Trp	Glu	Asp	Ser	Leu	Ser	Gly	Ile	Ala	Met	Asn	Val
	50					55					60				

Pro	Ala	Ser	Arg	Gly	Ser	Asn	Leu	Asn	Ser	Ser	Gly	Ala	Asn	Arg	Thr
65					70					75					80

Ser	Leu	Ser	Gly	Gly	Thr	Gly	Ser	Gly	Thr	Gln	Gly	Ala	Thr	Lys	Pro
				85					90					95	

Leu	Ser	Thr	Pro	His	Arg	Pro	Ser	Thr	Ala	Ser	Gly	Ser	Ser	Val	Val
			100					105					110		

Thr	Ala	Ser	Val	Gln	Lys	Leu	Ile	His	Thr	Glu	Asp	Pro	Phe	Asn	Asp
		115					120					125			

Glu	His	Gln	Glu	Arg	Gln	Glu	Val	Glu	Met	Leu	Ala	Lys	Lys	Phe	Glu
	130					135					140				

Met	Lys	Tyr	Tyr	Asp	Glu	Leu	Val	Pro	Ala	Ser	Leu	Thr	Thr	Lys	Tyr
145					150					155					160

Gly	Gly	Phe	Tyr	Ile	Asn	Thr	Gly	Thr	Leu	Gln	Phe	Arg	Gln	Ala	Ser
				165					170					175	

Asp	Thr	Glu	Glu	Asp	Asp	Ile	Thr	Asp	Asn	Gln	Lys	His	Lys	Pro	Pro
		180						185					190		

Lys	Val	Pro	Lys	Ile	Lys	Glu	Asp	Asp	Ile	Glu	Met	Lys	Lys	Arg	Lys
		195					200					205			

Arg	Lys	Glu	Glu	Gly	Glu	Lys	Glu	Lys	Lys	Pro	Arg	Lys	Lys	Val	Pro
	210					215					220				

5210

Lys Gln Leu Gly Val Val Ala Leu Asn Ser His Lys Ser Glu Lys Lys
 225 230 235 240

Lys

<210> 5925

<211> 330

<212> PRT

<213> Homo sapiens

<400> 5925

Ala Gly Ser Arg Cys Pro Ala Trp Arg Ala Arg Ser Ala Cys Arg Trp
 1 5 10 15

Pro Leu Ala Arg Cys Ser Ser Pro Gly Cys Asp Ser Gly Phe Gly Lys
 20 25 30

Glu Thr Ala Lys Lys Leu Asp Ser Met Gly Phe Thr Val Leu Ala Thr
 35 40 45

Val Leu Glu Leu Asn Ser Pro Gly Ala Ile Glu Leu Arg Thr Cys Cys
 50 55 60

Ser Pro Arg Leu Arg Leu Leu Gln Met Asp Leu Thr Lys Pro Gly Asp
 65 70 75 80

Ile Ser Arg Val Leu Glu Phe Thr Lys Ala His Thr Thr Ser Thr Gly
 85 90 95

Leu Trp Gly Leu Val Asn Asn Ala Gly His Asn Glu Val Val Ala Asp
 100 105 110

Ala Glu Leu Ser Pro Val Ala Thr Phe Arg Ser Cys Met Glu Val Asn
 115 120 125

Phe Phe Gly Ala Leu Glu Leu Thr Lys Gly Leu Leu Pro Leu Leu Arg
 130 135 140

Ser Ser Arg Gly Arg Ile Val Thr Val Gly Ser Pro Ala Gly Asp Met
 145 150 155 160

Pro Tyr Pro Cys Leu Gly Ala Tyr Gly Thr Ser Lys Ala Ala Val Ala
 165 170 175

Leu Leu Met Asp Thr Phe Ser Cys Glu Leu Leu Pro Trp Gly Val Lys
 180 185 190

5211

Val Ser Ile Ile Gln Pro Gly Cys Phe Lys Thr Glu Ser Val Arg Asn
 195 200 205
 Val Gly Gln Trp Glu Lys Arg Lys Gln Leu Leu Leu Ala Asn Leu Pro
 210 215 220
 Gln Glu Leu Leu Gln Ala Tyr Gly Lys Asp Tyr Ile Glu His Leu His
 225 230 235 240
 Gly Gln Phe Leu His Ser Leu Arg Leu Ala Met Ser Asp Leu Thr Pro
 245 250 255
 Val Val Asp Ala Ile Thr Asp Ala Leu Leu Ala Ala Arg Pro Arg Arg
 260 265 270
 Arg Tyr Tyr Pro Gly Gln Gly Leu Gly Leu Met Tyr Phe Ile His Tyr
 275 280 285
 Tyr Leu Pro Glu Gly Leu Arg Ala Ala Ser Cys Arg Pro Ser Ser Ser
 290 295 300
 Val Thr Val Cys Leu Glu His Cys Ser Leu Ala Ser Leu Ala Leu Pro
 305 310 315 320
 His His Arg Thr Gln Pro Arg Thr Gln Thr
 325 330

<210> 5926

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5926

Cys Xaa His Met Val Ile Met Cys Asp Trp Ile Met Lys Ile Ile Val

5212

1 5 10 15
 Val Cys Val Gly Thr Arg Asp Cys Pro Val Ser Arg Thr Pro Ala His
 20 25 30
 Tyr Leu Ser Ile Leu Gln Pro Phe Ile Trp Lys Leu Pro Thr Ser Leu
 35 40 45
 Cys Cys Val Cys Leu His Met Xaa Gly Phe Ala Val Leu Ala Leu Thr
 50 55 60
 Ala His Arg Glu Cys Arg Pro His Pro Asn Pro His Gln Leu Pro Leu
 65 70 75 80
 Glu Xaa Gln Asn Leu Gly Trp Gly
 85

<210> 5927

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5927

Arg Tyr His Ile Leu Ser Gly Ile Ser Pro Pro Ala Leu Trp Leu Leu
 1 5 10 15
 Val Glu Arg Leu Phe Gly Tyr Gly Leu Ala Val Glu Lys Ile Gln Val
 20 25 30
 Ile Leu Leu Asn Asp Phe Thr Phe
 35 40

<210> 5928

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5928

Thr Phe Pro Asn Gly Ala Phe Ala Leu Ile Ser Lys Leu Thr Ala Arg
 1 5 10 15
 Asp Ala Phe Leu Tyr Phe Asp Cys Phe Thr Val Glu Gly Gln Ile Pro

5213

	20		25		30										
Arg	Leu	Ser	Lys	Val	Asn	Leu	Phe	Thr	Leu	Leu	Ser	Leu	Trp	Met	Glu
	35		40		45										
Leu	Phe	Pro	Ala	Glu	Ala	Gln	Arg	Gln	Lys	Ser	Gln	Lys	Asn	Glu	Glu
	50		55		60										
Gly	Lys	His	Gly	Pro	Leu	Gly	Asp	Asn	Glu	Glu	Arg	Thr	Arg	Val	Ser
65			70		75										80
Thr	Asp	Lys	Arg	Gln	Lys	Thr	Met	Phe	Cys	Leu	Phe	Glu	Asn	Asp	Xaa
			85		90									95	
Lys	Cys	Lys	Ala	Leu	Thr	Val	Met	Ile	Arg	Ser	Met	Ser	Arg	Ser	Val
	100		105		110										

Pro

<210> 5929

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5929

Cys	Ile	Gly	Pro	Lys	Cys	Lys	Leu	His	Trp	Ser	Asp	Leu	Glu	Ala	Phe
1			5		10		15								
Met	Leu	Thr	Ser	Phe	Gly	Lys	Val	Lys	Asn	Asn	Lys	Ile	Ile	Leu	Asp
		20		25			30								
Phe	Ile	Leu	Tyr	Ile	Lys	Ile	Tyr	Leu	Leu	Arg	Lys	Gln	Ser	Val	Tyr
	35		40		45										
Tyr	Leu	Leu	Val												
	50														

<210> 5930

<211> 89

<212> PRT

<213> Homo sapiens

<400> 5930

Ala	Glu	Gln	Glu	Glu	His	Gly	Lys	Arg	Lys	Lys	Lys	Gly	Lys	Gly	Leu
1			5		10		15								

5214

Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe Cys Ile
 20 25 30
 His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser Cys Ile
 35 40 45
 Cys His Pro Gly Tyr His Gly Glu Arg Cys His Gly Leu Ser Leu Pro
 50 55 60
 Val Glu Asn Arg Leu Tyr Thr Tyr Asp His Thr Thr Ile Leu Ala Val
 65 70 75 80
 Val Ala Val Val Leu Asp Leu Met Ser
 85

<210> 5931

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5931

Glu Ser Pro Thr Ile Val Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro
 1 5 10 15
 Glu Phe Pro Gly Arg Pro Thr Arg Pro Pro Thr Arg Pro Gly Leu Leu
 20 25 30
 Glu Pro Trp Thr Ser Lys Gly Val Glu Ile Ala Ala Ala Pro His Tyr
 35 40 45
 Lys His Leu Gly Leu Glu Ala Thr Glu Tyr His Phe Leu His Ile Leu
 50 55 60
 Leu Xaa Lys Ala Gly Gly Glu Pro Ala Leu Thr Lys Arg Val Gly Asp
 65 70 75 80
 Gln Thr Phe Thr Ser
 85

<210> 5932

<211> 155

<212> PRT

5215

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5932

Glu	Trp	Thr	Glu	Gly	Gln	Thr	Val	Gln	Gly	Arg	Glu	Asp	His	Trp	Gly
1				5					10					15	

Arg	Glu	Val	Thr	Xaa	Arg	Glu	Val	Ser	Val	Gly	Arg	Gly	Glu	Thr	Lys
			20					25					30		

Glu	Lys	Ile	Glu	Glu	Gln	Lys	Ala	Leu	Ala	Leu	Gln	Leu	Gln	Asn	Gln
	35						40					45			

Arg	Leu	Gln	Glu	Arg	Glu	His	Ser	Val	His	Asp	Ser	Val	Glu	Leu	His
	50					55					60				

Leu	Arg	Val	Pro	Leu	Glu	Lys	Glu	Ile	Pro	Val	Thr	Val	Val	Gln	Glu
65					70					75					80

Thr	Gln	Lys	Lys	Gly	His	Lys	Leu	Thr	Asp	Ser	Glu	Asp	Glu	Phe	Pro
				85					90					95	

Glu	Ile	Thr	Glu	Glu	Met	Glu	Lys	Glu	Ile	Lys	Asn	Val	Phe	Arg	Asn
			100					105					110		

Gly	Asn	Gln	Asp	Glu	Val	Leu	Ser	Glu	Ala	Phe	Arg	Leu	Thr	Ile	Thr
	115						120					125			

Arg	Lys	Asp	Ile	Gln	Thr	Leu	Asn	His	Leu	Asn	Trp	Leu	Asn	Asp	Glu
	130					135					140				

Ile	Ile	Asn	Phe	Tyr	Met	Asn	Met	Leu	Met	Gly
145					150					155

<210> 5933

<211> 150

<212> PRT

<213> Homo sapiens

<400> 5933

Gly	Thr	Thr	Thr	Arg	Asp	Phe	Thr	Gln	Leu	Asn	Glu	Leu	Gln	Cys	Arg
1				5					10					15	

Phe	Pro	Arg	Arg	Leu	Val	Val	Leu	Gly	Phe	Pro	Cys	Asn	Gln	Phe	Gly
			20					25					30		

5216

His Gln Glu Asn Cys Gln Asn Glu Glu Ile Leu Asn Ser Leu Lys Tyr
 35 40 45
 Val Arg Pro Gly Gly Gly Tyr Gln Pro Thr Phe Thr Leu Val Gln Lys
 50 55 60
 Cys Glu Val Asn Gly Gln Asn Glu His Pro Val Phe Ala Tyr Leu Lys
 65 70 75 80
 Asp Lys Leu Pro Tyr Pro Tyr Asp Asp Pro Phe Ser Leu Met Thr Asp
 85 90 95
 Pro Lys Leu Ile Ile Trp Ser Pro Val Arg Arg Ser Asp Val Ala Trp
 100 105 110
 Asn Phe Glu Lys Phe Leu Ile Gly Pro Glu Gly Glu Pro Phe Arg Arg
 115 120 125
 Tyr Ser Arg Thr Phe Pro Thr Ile Asn Ile Glu Pro Asp Ile Lys Arg
 130 135 140
 Leu Leu Lys Val Ala Ile
 145 150

<210> 5934

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5934

His Ile Arg Thr Gly Glu Arg Glu Arg Arg Gly Leu Phe Phe Cys Ser
 1 5 10 15
 Ile Phe Gln Ser His Ile Arg Val Ile Leu Asn Cys Asn Lys Asp Gln
 20 25 30
 Leu Leu Lys Ile Ser Leu Leu Lys Ile Gln Asn Asp Leu Ser Ile Leu
 35 40 45
 Lys Ile Ile Tyr Leu Pro Cys Ser Cys Leu Leu Thr Leu Ala Ile Ser
 50 55 60
 Trp Arg Gly
 65

<210> 5935

5217

<211> 107

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5935

```

Ile Leu Gly Asp Thr Ile Glu Gly Thr Pro Ala Gly Thr Gly Pro Glu
 1              5              10              15

Phe Pro Gly Arg Pro Thr Arg Pro Xaa Thr Val Arg Leu Ser Ala Ile
              20              25              30

Asp Gly Ala Leu Leu Trp Cys Leu Leu Glu Val Tyr Cys His Tyr Arg
              35              40              45

Glu Pro Cys Leu Leu Ala Ser Leu Asp Leu Tyr Ser Lys Gln Ser Val
              50              55              60

Ser Asp Asp Lys Phe Cys Arg Arg Val Tyr Ser Glu Pro Leu Thr Ser
 65              70              75              80

Cys Lys Gly Lys Met Gly Gly Leu Pro Glu Ile Pro Leu Lys Gln Gly
              85              90              95

Gly Leu Trp Gly Gly Arg Leu Gly Tyr Leu Ser
              100              105

```

<210> 5936

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5936

```

Arg Ala Leu Trp Phe Phe Ser Ser Arg Gly His Asp Ala Ser Gln Ile
 1              5              10              15

Thr Leu Ala Leu Xaa Thr Ala Ala Ser Tyr Pro Arg Ala Cys Gln Ala
              20              25              30

Leu Gly Ala Met Leu Ser Lys Gly Ala Leu Asn Pro Ala Asp Ile Thr

```

5218

35 40 45
 Val Leu Phe Lys Met Phe Thr Ser Met Asp Pro Pro Pro Val Glu Leu
 50 55 60
 Glu Val Ala Ser Gln Glu Ser Pro Met Ser Ala Gly Lys Val Thr Leu
 65 70 75 80
 Glu Ser Leu Cys Leu Ser Asp Cys Leu Lys Ala Val Asn Ala Asn Pro
 85 90 95
 Ser Leu Ser Trp Ser Phe Leu Ser His Thr Leu Cys Leu Glu Pro Val
 100 105 110
 Gly Pro Leu Leu Cys Arg Asp Thr Leu Arg Gly Gly Gly
 115 120 125

<210> 5937

<211> 223

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5937

Arg His Cys Leu Pro Pro Thr Pro Pro Gln Gly Cys Gly Leu Pro Ala
 1 5 10 15
 Leu Gly Gly Gln Ala Met Leu Thr Leu His Gly Gly His Ser Ser Arg
 20 25 30
 Glu Ala Xaa Lys Val Val Asn Ser Ile Leu Ala Phe Arg Glu Lys Glu
 35 40 45
 Trp Gln Arg Leu Gln Ser Asn Pro His Leu Lys Glu Gly Ser Val Thr
 50 55 60
 Ser Val Asn Leu Thr Lys Leu Glu Gly Gly Val Ala Tyr Asn Val Ile
 65 70 75 80
 Pro Ala Thr Met Ser Ala Ser Phe Asp Phe Arg Val Ala Pro Asp Val
 85 90 95
 Asp Phe Lys Ala Phe Glu Glu Gln Leu Gln Ser Trp Cys Gln Ala Ala
 100 105 110

5219

Gly Glu Gly Val Thr Leu Glu Phe Ala Gln Lys Trp Met His Pro Gln
 115 120 125
 Val Thr Pro Thr Asp Asp Ser Asn Pro Trp Trp Ala Ala Phe Ser Arg
 130 135 140
 Val Cys Lys Asp Met Asn Leu Thr Leu Glu Pro Glu Ile Met Pro Ala
 145 150 155 160
 Ala Thr Asp Asn Arg Tyr Ile Arg Ala Val Gly Val Pro Ala Leu Gly
 165 170 175
 Phe Ser Pro Met Asn Arg Thr Pro Val Leu Leu His Asp His Asp Glu
 180 185 190
 Arg Leu His Glu Ala Val Phe Leu Arg Gly Val Asp Ile Tyr Thr Arg
 195 200 205
 Leu Leu Pro Ala Leu Ala Ser Val Pro Ala Leu Pro Ser Asp Ser
 210 215 220

<210> 5938

<211> 86

<212> PRT

<213> Homo sapiens

<400> 5938

Ala Leu Cys Pro Pro Arg Gly Thr Ala Ser Gly Pro Arg His Thr Leu
 1 5 10 15
 Trp Leu Asn Gln Gly Leu Gln Gly Pro Cys Gly Pro Ala Gln Ala Leu
 20 25 30
 Met Gly Arg His Val Arg Ser Trp Arg Thr Gln Ala Pro Phe Leu Ser
 35 40 45
 Gly Val Val Phe Phe Leu Cys Pro Gly Ala Ser Pro Ser Ser Asn Gly
 50 55 60
 Pro Phe Ala Arg Phe Gly Val Pro Leu Ala Gly Pro Ile Arg Thr Leu
 65 70 75 80
 Arg Ser Asn Gln Gly Arg
 85

<210> 5939

<211> 130

5220

<212> PRT

<213> Homo sapiens

<400> 5939

Arg Arg Asp Ala Cys Pro Ile Ser Arg Glu Pro Pro Thr Arg Pro Trp
 1 5 10 15

Gly Thr Thr Ser Thr Leu Leu Leu Ser Leu Gln Ser Pro Val Pro Arg
 20 25 30

Met Gly His Leu Gln Pro Leu Ala Leu Pro Gln Phe Leu His Leu Pro
 35 40 45

Ala Ala Ala Pro Arg Asn Trp Ala Pro Ser Ser Arg Ala Trp Pro Ala
 50 55 60

Cys Ala Pro Arg Ser Arg Pro Gly Arg Ala Ala Val Phe Leu Lys Tyr
 65 70 75 80

Ala Arg Pro Gln Arg Gln Gly Thr Ser Leu Ala Ala Ala Leu Pro Ala
 85 90 95

Ala Ala Ser Ser Leu Ser Leu Pro Glu Tyr Trp Asp Ser Val Thr Lys
 100 105 110

Lys Ser Thr Thr Lys Asn Lys Thr Leu Pro Val Cys Val Arg Leu Ser
 115 120 125

Ser Gln
 130

<210> 5940

<211> 148

<212> PRT

<213> Homo sapiens

<400> 5940

Gly Arg Thr Cys Lys Lys Glu Leu Thr Arg Lys Asp Thr Ile Met Ala
 1 5 10 15

His Val Thr Glu Phe His Asn Gly His Arg Tyr Phe Tyr Glu Met Asp
 20 25 30

Glu Val Glu Gly Glu Thr Leu Pro Ser Ser Ser Thr Thr Leu Asp Asn
 35 40 45

Leu Thr Ala Asn Lys Pro Ser Ser Ala Ile Thr Val Ile Asp His Ser
 50 55 60

5221

Pro Ala Asn Ser Ser Pro Arg Gly Lys Trp Gln Cys Arg Ile Cys Glu
65 70 75 80

Asp Met Phe Asp Ser Gln Glu Tyr Val Lys Gln His Cys Met Ser Leu
85 90 95

Ala Ser His Lys Phe His Arg Tyr Ser Cys Ala His Cys Arg Lys Pro
100 105 110

Phe His Lys Ile Glu Thr Leu Tyr Arg His Cys Gln Asp Glu His Asp
115 120 125

Asn Glu Ile Lys Ile Lys Tyr Phe Cys Gly Leu Cys Asp Leu Ile Phe
130 135 140

Asn Val Glu Glu
145

<210> 5941

<211> 268

<212> PRT

<213> Homo sapiens

<400> 5941

Pro Gly Arg Pro Thr Arg Pro Arg Thr Arg Gly Ile Asn Lys Leu Ile
1 5 10 15

Arg Ile Gly Arg Asn Glu Cys Val Val Val Ile Arg Val Asp Lys Glu
20 25 30

Lys Gly Tyr Ile Asp Leu Ser Lys Arg Arg Val Ser Pro Glu Glu Ala
35 40 45

Ile Lys Cys Glu Asp Lys Phe Thr Lys Ser Lys Thr Val Tyr Ser Ile
50 55 60

Leu Arg His Val Ala Glu Val Leu Glu Tyr Thr Lys Asp Glu Gln Leu
65 70 75 80

Glu Ser Leu Phe Gln Arg Thr Ala Trp Val Phe Asp Asp Lys Tyr Lys
85 90 95

Arg Pro Gly Tyr Gly Ala Tyr Asp Ala Phe Lys His Ala Val Ser Asp
100 105 110

Pro Ser Ile Leu Asp Ser Leu Asp Leu Asn Glu Asp Glu Arg Glu Val
115 120 125

Leu Ile Asn Asn Ile Asn Arg Arg Leu Thr Pro Gln Ala Val Lys Ile

5222

130	135	140
Arg Ala Asp Ile Glu Val Ala Cys Tyr Gly Tyr Glu Gly Ile Asp Ala		
145	150	155 160
Val Lys Glu Ala Leu Arg Ala Gly Leu Asn Cys Ser Thr Glu Asn Met		
	165	170 175
Pro Ile Lys Ile Asn Leu Ile Ala Pro Pro Arg Tyr Val Met Thr Thr		
	180	185 190
Thr Thr Leu Glu Arg Thr Glu Gly Leu Ser Val Leu Ser Gln Ala Met		
	195	200 205
Ala Val Ile Lys Glu Lys Ile Glu Glu Lys Arg Gly Val Phe Asn Val		
	210	215 220
Gln Met Glu Pro Lys Val Val Thr Asp Thr Asp Glu Thr Glu Leu Ala		
	225	230 235 240
Arg Gln Met Glu Arg Leu Glu Arg Glu Asn Ala Glu Val Asp Gly Asp		
	245	250 255
Asp Asp Ala Glu Glu Met Glu Ala Lys Ala Glu Asp		
	260	265

<210> 5942

<211> 249

<212> PRT

<213> Homo sapiens

<400> 5942

Ser Arg Glu Ile Asp Ile Ile His Val Ile Lys Asn Met Gly Phe Asn
1 5 10 15
Leu Thr Phe His Leu Ser Tyr Lys Phe Arg Leu Leu Leu Leu Leu Thr
20 25 30
Leu Cys Leu Thr Val Val Gly Trp Ala Thr Ser Asn Tyr Phe Val Gly
35 40 45
Ala Ile Gln Glu Ile Pro Lys Ala Lys Glu Phe Met Ala Asn Phe His
50 55 60
Lys Thr Leu Ile Leu Gly Lys Gly Lys Thr Leu Thr Asn Glu Ala Ser
65 70 75 80
Thr Lys Lys Val Glu Leu Asp Asn Cys Pro Ser Val Ser Pro Tyr Leu
85 90 95

5223

Arg Gly Gln Ser Lys Leu Ile Phe Lys Pro Asp Leu Thr Leu Glu Glu
 100 105 110
 Val Gln Ala Glu Asn Pro Lys Val Ser Arg Gly Arg Tyr Arg Pro Gln
 115 120 125
 Glu Cys Lys Ala Leu Gln Arg Val Ala Ile Leu Val Pro His Arg Asn
 130 135 140
 Arg Glu Lys His Leu Met Tyr Leu Leu Glu His Leu His Pro Phe Leu
 145 150 155 160
 Gln Arg Gln Gln Leu Asp Tyr Gly Ile Tyr Val Ile His Gln Ala Glu
 165 170 175
 Gly Lys Lys Phe Asn Arg Ala Lys Leu Leu Asn Val Gly Tyr Leu Glu
 180 185 190
 Ala Leu Lys Glu Glu Asn Trp Asp Cys Phe Ile Phe His Asp Val Thr
 195 200 205
 Trp Tyr Pro Arg Met Thr Leu Thr Phe Thr Ser Val Arg Ser Ile Pro
 210 215 220
 Ser Ile Trp Trp Leu Ala Gly Thr Ala Leu Gly Thr Gly Tyr Val Thr
 225 230 235 240
 Val Asp Ile Leu Gly Val Leu Leu Pro
 245

<210> 5943

<211> 25

<212> PRT

<213> Homo sapiens

<400> 5943

Gln Ala Pro Arg Arg Pro Ser Pro Ala Ser Leu Cys Gly Pro Arg Arg
 1 5 10 15
 Pro Ala Ala Pro Glu Leu Leu Thr Val
 20 25

<210> 5944

<211> 70

<212> PRT

<213> Homo sapiens

5224

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5944

Gln Gly Gly Asp Pro Trp Val Val Arg Gln Leu Trp Val Asn Phe Val
 1 5 10 15

Ser Thr Leu Ser Arg Gly Lys Phe Gly Leu Ser Pro Gly Val His Thr
 20 25 30

Ala Ala Ala Thr Gln Cys Ala Thr Tyr His Phe Phe Leu Xaa Cys Phe
 35 40 45

Val Leu Phe Leu Lys Asp His Phe Ile Leu Lys Arg Lys Ala Asp Pro
 50 55 60

Ser Lys His Glu Ser Ile
 65 70

<210> 5945

<211> 409

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5945

Pro Val Xaa Pro Arg Val Arg Arg Arg Arg Ala Lys Val Gln Gln Gly
 1 5 10 15

Ala Val Gly Arg Ala Arg Arg Phe Pro Ala Arg Val Ser Ala Arg Gly
 20 25 30

Ser Ala Pro Gly Pro Gly Leu Gly Gly Ala Gly Ala Leu Asp Pro Pro
 35 40 45

Ala Val Val Ala Glu Ser Val Ser Ser Leu Thr Ile Ala Asp Ala Phe
 50 55 60

Ile Ala Ala Gly Glu Ser Ser Ala Pro Thr Pro Pro Arg Pro Ala Leu
 65 70 75 80

Pro Arg Arg Phe Ile Cys Ser Phe Pro Asp Cys Ser Ala Asn Tyr Ser

5225

85										90					95				
Lys	Ala	Trp	Lys	Leu	Asp	Ala	His	Leu	Cys	Lys	His	Thr	Gly	Glu	Arg				
			100					105					110						
Pro	Phe	Val	Cys	Asp	Tyr	Glu	Gly	Cys	Gly	Lys	Ala	Phe	Ile	Arg	Asp				
		115					120					125							
Tyr	His	Leu	Ser	Arg	His	Ile	Leu	Thr	His	Thr	Gly	Glu	Lys	Pro	Phe				
	130					135					140								
Val	Cys	Ala	Ala	Asn	Gly	Cys	Asp	Gln	Lys	Phe	Asn	Thr	Lys	Ser	Asn				
145					150					155					160				
Leu	Lys	Lys	His	Phe	Glu	Arg	Lys	His	Glu	Asn	Gln	Gln	Lys	Gln	Tyr				
				165					170					175					
Ile	Cys	Ser	Phe	Glu	Asp	Cys	Lys	Lys	Thr	Phe	Lys	Lys	His	Gln	Gln				
			180					185					190						
Leu	Lys	Ile	His	Gln	Cys	Gln	His	Thr	Asn	Glu	Pro	Leu	Phe	Lys	Cys				
		195					200					205							
Thr	Gln	Glu	Gly	Cys	Gly	Lys	His	Phe	Ala	Ser	Pro	Ser	Lys	Leu	Lys				
	210					215					220								
Arg	His	Ala	Lys	Ala	His	Glu	Gly	Tyr	Val	Cys	Gln	Lys	Gly	Cys	Ser				
225					230					235					240				
Phe	Val	Ala	Lys	Thr	Trp	Thr	Glu	Leu	Leu	Lys	His	Val	Arg	Glu	Thr				
				245					250					255					
His	Lys	Glu	Glu	Ile	Leu	Cys	Glu	Val	Cys	Arg	Lys	Thr	Phe	Lys	Arg				
			260					265					270						
Lys	Asp	Tyr	Leu	Lys	Gln	His	Met	Lys	Thr	His	Ala	Pro	Glu	Arg	Asp				
		275					280					285							
Val	Cys	Arg	Cys	Pro	Arg	Glu	Gly	Cys	Gly	Arg	Thr	Tyr	Thr	Thr	Val				
	290						295				300								
Phe	Asn	Leu	Gln	Ser	His	Ile	Leu	Ser	Phe	His	Glu	Glu	Ser	Arg	Pro				
305					310					315					320				
Phe	Val	Cys	Glu	His	Ala	Gly	Cys	Gly	Lys	Thr	Phe	Ala	Met	Lys	Gln				
				325					330					335					
Ser	Leu	Thr	Arg	His	Ala	Val	Val	His	Asp	Pro	Asp	Lys	Lys	Lys	Met				
			340					345					350						
Lys	Leu	Lys	Val	Lys	Lys	Ser	Arg	Glu	Lys	Arg	Ser	Leu	Ala	Ser	His				

5226

355 360 365
 Leu Ser Gly Tyr Ile Pro Pro Lys Arg Lys Gln Gly Gln Gly Leu Ser
 370 375 380
 Leu Cys Gln Asn Gly Glu Ser Pro Asn Cys Val Glu Asp Lys Met Leu
 385 390 395 400
 Ser Thr Val Ala Val Leu Thr Leu Gly
 405

<210> 5946

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5946

Lys Arg Met Ala Ala Leu Phe Leu Lys Arg Leu Thr Leu Gln Thr Val
 1 5 10 15

Lys Ser Glu Asn Ser Cys Ile Arg Cys Phe Gly Lys His Ile Leu Gln
 20 25 30

Lys Thr Ala Pro Ala Gln Leu Ser Pro Ile Ala Ser Ala Pro Arg Leu
 35 40 45

Ser Phe Leu Ile His Ala Lys Ala Phe Ser Thr Ala Glu Asp Thr Gln
 50 55 60

Asn Glu Gly Lys Lys Thr Lys Lys Xaa Lys Thr Ala Phe Ser Asn Val
 65 70 75 80

Xaa Lys Lys Asn

<210> 5947

<211> 288

5227

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5947

Asp	Val	Ile	Arg	Arg	Thr	Val	Glu	Glu	Arg	Lys	Leu	Lys	Leu	Glu	Met
1				5					10					15	

Glu	Lys	Gln	Glu	Phe	Glu	Gln	Leu	Arg	Gln	Glu	Met	Gly	Glu	Glu	Glu
		20					25					30			

Glu	Glu	Asn	Glu	Thr	Phe	Gly	Leu	Ser	Arg	Glu	Tyr	Glu	Glu	Leu	Ile
		35					40					45			

Lys	Leu	Lys	Arg	Ser	Gly	Ser	Ile	Gln	Ala	Lys	Asn	Leu	Lys	Ser	Lys
	50					55					60				

Phe	Glu	Lys	Ile	Gly	Gln	Leu	Ser	Glu	Lys	Glu	Ile	Gln	Xaa	Xaa	Ile
65					70					75					80

Glu	Glu	Glu	Arg	Ala	Arg	Arg	Arg	Ala	Ile	Asp	Leu	Glu	Ile	Lys	Glu
				85					90					95	

Arg	Glu	Ala	Glu	Asn	Phe	His	Glu	Glu	Asp	Asp	Val	Asp	Val	Arg	Pro
		100						105					110		

Ala	Arg	Lys	Ser	Glu	Ala	Pro	Phe	Thr	His	Lys	Val	Asn	Met	Lys	Ala
		115					120					125			

Arg	Phe	Glu	Gln	Met	Ala	Lys	Ala	Arg	Glu	Glu	Glu	Glu	Gln	Arg	Arg
	130					135					140				

Ile	Glu	Glu	Gln	Lys	Leu	Leu	Arg	Met	Gln	Phe	Glu	Gln	Arg	Glu	Ile
145					150					155					160

Asp	Ala	Ala	Leu	Gln	Lys	Lys	Arg	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Gly
			165						170					175	

Ser	Ile	Met	Asn	Gly	Ser	Thr	Ala	Glu	Asp	Glu	Glu	Gln	Thr	Arg	Ser
			180					185					190		

Gly	Ala	Pro	Trp	Phe	Lys	Lys	Pro	Leu	Lys	Asn	Thr	Ser	Val	Val	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5228

195		200		205
Ser Glu Pro Val Arg Phe Thr Val Lys Val Thr Gly Glu Pro Lys Pro				
210		215		220
Glu Ile Thr Trp Trp Phe Glu Gly Glu Ile Leu Gln Asp Gly Glu Asp				
225		230		235 240
Tyr Gln Tyr Ile Glu Arg Gly Glu Thr Tyr Cys Leu Tyr Leu Pro Glu				
	245		250	255
Thr Phe Pro Glu Asp Gly Gly Glu Tyr Met Cys Lys Ala Val Asn Asn				
	260		265	270
Lys Gly Ser Ala Ala Ser Thr Cys Ile Leu Thr Ile Glu Ser Lys Asn				
	275		280	285

<210> 5948

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

5229

<400> 5948

Trp His Tyr Gly Met Tyr Gly Gln Ala Xaa Pro Cys Gln Glu Xaa Ile
 1 5 10 15
 Pro Gly Met Val Glu Ser Phe Ile Xaa Asn Gly Trp Phe Ser Xaa Tyr
 20 25 30
 Ala Lys Arg Pro Met Ser Asn Pro Leu Leu Leu Ile Pro Ala Ala Trp
 35 40 45
 Gly Leu Val Pro Val Val Pro Gln Lys Cys Gly Pro Arg Thr Gln Pro
 50 55 60
 Val Xaa Ala Ser Ser Gly Asn Leu Val Lys Lys Cys Lys Leu Leu Gly
 65 70 75 80
 Pro Thr Leu Asn Leu Leu Asn His Lys Leu Cys Phe Asn Lys Gln Pro
 85 90 95
 Ala Leu

<210> 5949

<211> 138

<212> PRT

<213> Homo sapiens

<400> 5949

Val Pro Asp Phe Gln Gly Gln Gln Phe Ile Leu Glu Lys Gly Asp Tyr
 1 5 10 15
 Pro Arg Trp Ser Ala Trp Ser Gly Ser Ser Ser His Asn Ser Asn Gln
 20 25 30
 Leu Leu Ser Phe Arg Pro Val Leu Cys Ala Asn His Asn Asp Ser Arg
 35 40 45
 Val Thr Leu Phe Glu Gly Asp Asn Phe Gln Gly Cys Lys Phe Asp Leu
 50 55 60
 Val Asp Asp Tyr Pro Ser Leu Pro Ser Met Gly Trp Ala Ser Lys Asp
 65 70 75 80
 Val Gly Ser Leu Lys Val Ser Ser Gly Ala Trp Val Ala Tyr Gln Tyr
 85 90 95
 Pro Gly Tyr Arg Gly Tyr Gln Tyr Val Leu Glu Arg Asp Arg His Ser
 100 105 110

5230

Gly Glu Phe Cys Thr Tyr Gly Glu Leu Gly Thr Gln Ala His Thr Gly
 115 120 125

Gln Leu Gln Ser Ile Arg Arg Val Gln His
 130 135

<210> 5950

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5950

Lys Lys Asp Phe Phe Gly Lys Ser Asp Pro Phe Leu Val Phe Tyr Arg
 1 5 10 15

Ser Asn Glu Asp Gly Thr Phe Thr Ile Cys His Lys Thr Glu Val Val
 20 25 30

Lys Asn Thr Leu Asn Pro Val Trp Gln Pro Phe Ser Ile Pro Val Arg
 35 40 45

Ala Leu Cys Asn Gly Asp Tyr Asp Arg Thr Val Lys Ile Asp Val Tyr
 50 55 60

Asp Trp Asp Arg Asp Gly Ser His Asp Phe Ile Gly Glu Phe Thr Thr
 65 70 75 80

Ser Tyr Arg Glu Leu Ser Lys Ala Gln Asn Gln Phe Thr Val Tyr Glu
 85 90 95

Val Leu Asn Pro Arg Lys Lys Cys Lys Lys Lys Lys Tyr Val Asn Ser
 100 105 110

Gly Thr Val Thr Leu Leu Ser Phe Ser Val Asp Ser Glu Phe Thr Phe
 115 120 125

Val Asp Tyr Ile Lys Gly Gly Thr Gln Leu Asn Phe Thr Val Ala Ile
 130 135 140

Asp Phe Thr Ala Ser Asn Gly Asn Pro Leu Gln Pro Thr Xaa Leu His
 145 150 155 160

Tyr Met Ser Pro Tyr Gln Leu Ser Ala Tyr Ala Met Ala Leu Lys Ala

5231

165 170 175
 Val Gly Glu Ile Ile Gln Asp Tyr Asp Ser Asp Lys Leu Phe Pro Ala
 180 185 190
 Tyr Gly Phe Gly
 195

<210> 5951

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5951

Lys Glu His Leu Met Cys Trp Ala Phe Tyr Arg Leu Thr Leu Thr Ser
 1 5 10 15

Gln Ala Glu Leu Tyr Thr Phe Ser Phe Thr Thr Ile Ser Ile Leu Ile
 20 25 30

Asn Tyr Gly Phe Met Leu Leu Lys Thr Ile Tyr Asn Ala Asp His Tyr
 35 40 45

Tyr Lys Cys Val Val Leu Thr Asn Cys Thr Glu Thr Ala Leu Ser Leu
 50 55 60

Tyr Ser Val Trp Ile Phe Gly Glu Asn Asn Lys Cys Ser Gln Glu Xaa
 65 70 75 80

Leu Leu Arg Gly Arg Leu Cys Glu Trp Ile Thr Leu Lys Ala Ala Phe
 85 90 95

Glu Thr Pro Val Ser Gly Ile Ser Cys Ile Leu Ala Trp Arg Pro Asp
 100 105 110

Val Asn Leu Thr Ser Ser Lys Asn Thr Arg Phe Pro
 115 120

<210> 5952

<211> 129

<212> PRT

<213> Homo sapiens

5232

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5952

Thr	Phe	Ala	Gly	Leu	Cys	His	Ile	Pro	Leu	Ala	Val	Ser	Ser	Glu	Glu
1				5					10					15	

Ala	Pro	Phe	Ala	Leu	Gly	Asn	Gly	Ser	Val	Ser	His	Trp	Phe	Ile	Ser
			20					25					30		

Leu	Glu	Leu	Phe	Gly	Ser	Gln	Ile	Cys	Phe	Phe	Glu	Asn	Leu	Ser	Trp
		35					40					45			

Gly	Arg	Leu	Gln	Val	Val	Asn	Arg	Gly	Val	Gly	Val	Gly	Gly	Gly	Val
	50					55					60				

His	Tyr	Leu	Gly	Leu	Leu	Gly	Ala	Ser	Arg	Phe	Ser	Gly	Arg	Arg	Ile
65					70					75					80

His	Cys	Val	Leu	Leu	Leu	Phe	Pro	Trp	Pro	Gly	Leu	Pro	Ala	Ser	Leu
				85					90					95	

Cys	His	Pro	Ala	Trp	Gly	Lys	Ala	Pro	Thr	Gly	Ile	Val	Ser	Pro	Leu
			100					105					110		

His	Ala	Ser	Leu	Ala	Xaa	Lys	Ser	Gln	Lys	Lys	Ser	Lys	Thr	Gly	Arg
			115				120					125			

Lys

<210> 5953

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

5233

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5953

Val	Leu	Glu	Pro	Gln	Asn	Val	Asp	Pro	Ser	Met	Val	Gln	Met	Thr	Phe
1				5					10					15	

Leu	Asp	Asp	Val	Xaa	His	Ser	Leu	Leu	Lys	Gly	Glu	Asn	Ile	Gly	Ile
			20					25					30		

Thr	Ser	Arg	Arg	Arg	Ser	Arg	Ala	Asn	Gln	Asn	Val	Asn	Ala	Val	His
		35					40					45			

Ser	His	Tyr	Thr	Arg	Ala	Gln	Ala	Asn	Ser	Pro	Arg	Pro	Ala	Met	Asn
	50					55					60				

Ser	Gln	Ala	Ala	Val	Pro	Lys	Gln	Asn	Thr	His	Gln	Gln	Gln	Gln	Gln
65					70					75					80

Arg	Ser	Ile	Arg	Pro	Asn	Lys	Arg	Lys	Gly	Ser	Asp	Ser	Ser	Ile	Pro
				85					90					95	

Asp	Glu	Xaa	Lys	Met	Lys	Glu	Glu	Lys	Tyr	Asp	Tyr	Ile	Ser	Arg	Gly
			100					105					110		

Glu	Asn	Pro	Lys	Gly	Lys	Asn	Lys	His	Leu	Met	Asn	Lys	Arg	Arg	Lys
		115					120					125			

Pro	Glu	Glu	Asp	Glu	Lys	Lys	Leu	Asn	Met	Lys	Arg	Leu	Arg	Thr	Asp
	130					135					140				

Asn	Val	Ser	Asp	Phe	Ser	Glu	Ser	Ser	Asp	Ser	Glu	Asn	Ser	Asn	Lys
145					150					155					160

Arg	Ile	Ile	Asp	Asn	Ser	Ser	Glu	Gln	Lys	Pro	Glu	Asn	Glu	Xaa	Lys
				165					170					175	

Lys Lys Tyr

<210> 5954

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5234

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5954

Ala	Gly	Phe	Cys	Val	Val	Gln	Leu	Arg	Thr	Cys	Phe	Ser	Arg	Gln	Arg
1				5					10					15	

Phe	Lys	Ile	Ser	Gly	Asp	Gly	Ile	Arg	Asn	Gly	Asn	Ala	Glu	Arg	Xaa
			20					25					30		

Gly	Arg	Gly	Gly	Leu	Tyr	Pro	Gly	His	Pro	Gln	Gly	Gly	Arg	Arg	Ala
		35					40					45			

Lys	Lys	Arg	Gln	Ala	Glu	Gln	Leu	Ser	Ala	Ala	Gly	Glu	Gly	Gly	Asp
	50					55					60				

Ala	Gly	Arg	Met	Asp	Thr	Glu	Glu	Ala	Arg	Pro	Ala	Lys	Arg	Pro	Val
65					70					75					80

Phe	Pro	Pro	Leu	Cys	Gly	Asp	Gly	Leu	Leu	Ser	Gly	Lys	Glu	Glu	Thr
				85					90					95	

Arg	Lys	Ile	Pro	Val	Pro	Ala	Asn	Arg	Tyr	Thr	Pro	Leu	Lys	Glu	Asn
			100					105					110		

Trp	Met	Lys	Ile	Phe	Thr	Pro	Ile	Val	Glu	His	Leu	Gly	Leu	Gln	Ile
		115					120					125			

Arg	Phe	Asn	Leu	Lys	Ser	Arg	Asn	Val	Glu	Ile	Arg	Thr	Cys	Lys	Glu
	130					135					140				

Thr	Lys	Asp	Val	Ser	Ala	Leu	Thr	Lys	Ala	Ala	Asp	Phe	Val	Lys	Ala
145					150					155					160

Phe	Ile	Leu	Gly	Phe	Gln	Val	Glu	Asp	Ala	Leu	Ala	Leu	Ile	Arg	Leu
			165						170					175	

Asp	Asp	Leu	Phe	Leu	Glu	Ser	Phe	Glu	Ile	Thr	Asp	Val	Lys	Pro	Leu
		180						185					190		

Lys	Gly	Asp	His	Leu	Ser	Arg	Ala	Ile	Gly	Arg	Ile	Ala	Gly	Lys	Gly
		195					200					205			

Gly	Lys	Thr	Lys	Phe	Thr	Ile	Glu	Asn	Val	Thr	Arg	Thr	Arg	Ile	Val
	210					215					220				

Leu	Ala	Asp	Val	Lys	Val	His	Ile	Leu	Gly	Ser	Phe	Gln	Asn	Ile	Lys
225					230					235					240

Met	Ala	Arg	Thr	Ala	Ile	Cys	Asn	Leu	Ile	Leu	Gly	Asn	Pro	Pro	Ser
				245					250					255	

5235

Lys Val Tyr Gly Asn Ile Arg Ala Val Ala Ser Arg Ser Ala Asp Arg
 260 265 270

Phe

<210> 5955

<211> 92

<212> PRT

<213> Homo sapiens

<400> 5955

Arg Met Glu Arg Ser Leu Lys Gly Ile Phe Ile Lys Gln Val Leu Glu
 1 5 10 15

Asp Ser Pro Ala Gly Lys Thr Asn Ala Leu Lys Thr Gly Asp Lys Ile
 20 25 30

Leu Glu Val Ser Gly Val Asp Leu Gln Asn Ala Ser His Ser Glu Ala
 35 40 45

Val Glu Ala Ile Lys Asn Ala Gly Asn Pro Val Val Phe Ile Val Gln
 50 55 60

Ser Leu Ser Ser Thr Pro Arg Val Ile Pro Asn Val His Asn Lys Ala
 65 70 75 80

Asn Lys Ile Thr Gly Asn Gln Asn Gln Asp Thr Gln
 85 90

<210> 5956

<211> 203

<212> PRT

<213> Homo sapiens

<400> 5956

Asn Ser Ala Arg Gly Asp Gln Glu Ser Thr Cys Ala Glu Val Leu Val
 1 5 10 15

Ile Trp Ser Leu Phe Pro Ser Gly Tyr Gln Leu Pro Ser Ala Ala Gln
 20 25 30

Ala Val Val Pro Glu Ala Arg Gly Arg Ser Gln Thr Cys Gly Asn Phe
 35 40 45

Ala Val Tyr Leu Gln Gly Cys Cys Phe Gln Gln Asp Pro Lys Leu Glu

5236

50	55	60
Lys Glu Glu Glu Glu Thr Asp Pro Ile Ser Ala Arg Ser His Cys Ile		
65	70	75 80
Gln Arg Arg Ile Ser Lys Lys Glu Lys Lys Glu Gly Arg Glu Val Asp		
	85	90 95
Arg Tyr Lys Met Lys Ser Cys Gln Lys Met Glu Gly Lys Pro Glu Asn		
	100	105 110
Glu Ser Glu Pro Lys His Glu Glu Glu Pro Lys Pro Glu Glu Lys Pro		
	115	120 125
Glu Glu Glu Glu Lys Leu Glu Glu Glu Ala Lys Ala Lys Gly Thr Phe		
	130	135 140
Arg Glu Arg Leu Ile Gln Ser Leu Gln Glu Phe Lys Glu Asp Ile His		
	145	150 155 160
Asn Arg His Leu Ser Asn Glu Asp Met Phe Arg Glu Val Asp Glu Ile		
	165	170 175
Asp Glu Ile Arg Arg Val Arg Asn Lys Leu Ile Val Met Arg Trp Lys		
	180	185 190
Val Asn Arg Asn His Pro Tyr Pro Tyr Leu Met		
	195	200

<210> 5957

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

5237

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5957

Trp	Ala	Leu	Cys	Thr	Asn	Cys	Phe	Ser	Pro	Ser	Pro	Leu	Asp	Leu	Arg
1				5					10					15	

Ile	Lys	His	Pro	Val	Leu	Lys	Leu	Ile	Cys	Cys	Ser	Phe	Val	Asn	Ile
			20					25					30		

Ser	Leu	Arg	Phe	Ser	Leu	Arg	Val	Arg	Xaa	Asn	Ile	Ser	Glu	Pro	Lys
		35					40					45			

Val	Pro	Tyr	Thr	Thr	Leu	Ala	Tyr	Tyr	Ser	Xaa	Xaa	Phe	Lys	Gly	Phe
	50					55					60				

Arg	Ile	Phe	Gly	Ser	His	Xaa	Lys	Ser	Val	Phe	Ile	Met
65					70					75		

<210> 5958

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5958

Cys	Asn	Asp	His	Lys	Ile	Ala	Trp	Lys	Ile	Val	Ile	Gln	Ile	Ser	Thr
1				5					10					15	

Met	Asn	Ser	Xaa	Pro	Lys	Phe	Phe	Phe	Pro	Met	Ile	Lys	Val	Val	Asp
			20					25					30		

<210> 5959

<211> 56

<212> PRT

<213> Homo sapiens

<400> 5959

5238

Asn Gln Val Tyr Phe Leu Met Ala Phe Ile Thr Leu Thr His Lys Val
 1 5 10 15

Thr Asp Gln Cys Ile Ser Tyr Gly Tyr Arg Pro Arg Ala Leu Glu Gly
 20 25 30

Gly Gly Leu Leu Lys His Met Gln Lys Lys Lys Lys Lys Lys Phe Cys
 35 40 45

Ile Tyr Asn His Phe Asn Leu Leu
 50 55

<210> 5960

<211> 82

<212> PRT

<213> Homo sapiens

<400> 5960

Gly Tyr Val Cys Glu Phe Leu Gly Asn Leu Ser Val Leu Asp Ala Ser
 1 5 10 15

Leu Gln Gln Gly Pro Leu Leu Ala Met Asp Gly Pro Gly Arg Ser Leu
 20 25 30

Glu Ile Thr His Leu Lys Asn Glu Gly Pro Met Lys Val Phe Gly Cys
 35 40 45

Leu Leu Met Pro Leu Leu Leu Thr Leu Leu Phe Ala Tyr Phe Gln Asn
 50 55 60

Ile Ile Lys Cys Gln His Ile Ile Ser Glu Arg Gln Val Gly Val Gly
 65 70 75 80

Glu Lys

<210> 5961

<211> 77

<212> PRT

<213> Homo sapiens

<400> 5961

Phe Val Thr Cys His Asn Thr Lys Gln Val Thr Glu Glu Thr Ile Met
 1 5 10 15

Gly Pro Arg Gly Arg Cys Leu Tyr His Val Asp Lys Ile Gln Ser Ser
 20 25 30

5239

Leu Phe Gln Thr Lys His Phe Ala Leu Glu Thr Phe Glu Thr Ser Met
 35 40 45

Ala Val Glu Tyr Ser Arg Asp Asp Leu Lys Ile Leu Glu Ala Val Glu
 50 55 60

Val Pro Val Val Gly Ala Arg His Gly Ser Gly Asp Pro
 65 70 75

<210> 5962

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5962

Ala Asp Ala Trp Val Asp Tyr Ser Glu Asp Lys Ser Ser Trp Asp Asn
 1 5 10 15

Gln Gln Glu Asn Pro Pro Pro Thr Lys Lys Ile Gly Lys Lys Pro Val
 20 25 30

Ala Lys Met Pro Leu Arg Arg Pro Lys Met Lys Lys Thr Pro Glu Lys
 35 40 45

Leu Asp Asn Thr Pro Ala Ser Pro Pro Arg Ser Pro Ala Glu Pro Asn
 50 55 60

Asp Ile Pro Ile Ala Lys Gly Thr Tyr Thr Phe Asp Ile Asp Lys Trp
 65 70 75 80

Asp Asp Pro Asn Phe Asn Pro Phe Ser Ser Thr Ser Lys Met Gln Glu
 85 90 95

Ser Pro Lys Leu Pro Gln Gln Ser Tyr Asn Phe Asp Pro Asp Thr Cys
 100 105 110

Asp Glu Ser Val Asp Pro Phe Lys Thr Ser Ser Lys Thr Pro Ser Ser
 115 120 125

Pro Ser Lys Ser Pro Ala Ser Phe Glu Ile Pro Ala Ser Ala Met Glu
 130 135 140

Ala Asn Gly Val Asp Gly Asp Gly Leu Asn Lys Pro Ala Lys Lys Lys

5240

145 150 155 160

Lys Thr Pro Leu Lys Thr Glu His Leu Xaa

 165 170

<210> 5963

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5963

Leu Ile Ala Gly Ile Gln His Gly Cys Gln Asp Ile Gly Ala Arg Ser

1 5 10 15

Leu Ser Val Leu Arg Ser Met Met Tyr Ser Gly Glu Leu Lys Phe Glu

 20 25 30

Lys Arg Thr Met Ser Ala Gln Ile Glu Gly Gly Val His Gly Leu His

 35 40 45

Ser Tyr Glu Lys Arg Leu Tyr

 50 55

<210> 5964

<211> 493

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

5241

<220>

<221> SITE

<222> (359)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (434)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (436)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (468)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (471)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (473)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (488)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5964

Val	Ile	Arg	Gly	Gly	Ser	Asn	Arg	Arg	Gly	Glu	Gly	Glu	Val	Ile	Pro
1				5					10				15		

Glu	Glu	Ser	Arg	Leu	Gly	Arg	Thr	Arg	Trp	Pro	Gly	Asn	Arg	Val	Ile
			20					25					30		

Arg	Glu	Met	Lys	Pro	Thr	Gly	Thr	Asp	Pro	Arg	Ile	Leu	Ser	Ile	Ala
			35					40				45			

Ala	Glu	Val	Ala	Lys	Ser	Pro	Glu	Gln	Asn	Val	Pro	Val	Ile	Leu	Leu
			50			55					60				

Lys	Leu	Lys	Glu	Ile	Ile	Asn	Ile	Thr	Pro	Leu	Gly	Ser	Ser	Glu	Leu
65					70					75				80	

Lys	Lys	Ile	Lys	Gln	Asp	Ile	Tyr	Cys	Tyr	Asp	Leu	Ile	Gln	Tyr	Cys			
				85						90						95		
Leu	Leu	Val	Leu	Ser	Gln	Asp	Tyr	Ser	Arg	Ile	Gln	Gly	Gly	Trp	Xaa			
			100						105							110		
Thr	Ile	Ser	Gln	Leu	Thr	Gln	Ile	Leu	Ser	His	Cys	Cys	Val	Gly	Leu			
			115						120							125		
Glu	Pro	Gly	Glu	Asp	Ala	Xaa	Glu	Phe	Tyr	Asn	Glu	Leu	Leu	Pro	Ser			
			130						135							140		
Ala	Ala	Glu	Asn	Phe	Leu	Val	Leu	Gly	Arg	Gln	Xaa	Gln	Thr	Cys	Phe			
145						150						155					160	
Ile	Asn	Ala	Ala	Xaa	Ala	Glu	Glu	Lys	Asp	Glu	Leu	Leu	His	Phe	Phe			
				165						170						175		
Gln	Ile	Val	Thr	Asp	Ser	Leu	Phe	Trp	Leu	Leu	Gly	Gly	His	Val	Glu			
			180						185							190		
Leu	Ile	Gln	Asn	Val	Leu	Gln	Ser	Asp	His	Phe	Leu	His	Leu	Leu	Gln			
			195						200							205		
Ala	Asp	Asn	Val	Gln	Ile	Gly	Ser	Ala	Val	Met	Met	Met	Leu	Gln	Asn			
210						215						220						
Ile	Leu	Gln	Ile	Asn	Ser	Gly	Asp	Leu	Leu	Arg	Ile	Gly	Arg	Lys	Ala			
225						230						235					240	
Leu	Tyr	Ser	Ile	Leu	Asp	Glu	Val	Ile	Phe	Lys	Leu	Phe	Ser	Thr	Pro			
			245						250							255		
Ser	Pro	Val	Ile	Arg	Ser	Thr	Ala	Thr	Lys	Leu	Leu	Leu	Leu	Met	Ala			
			260						265							270		
Glu	Ser	His	Gln	Glu	Ile	Leu	Ile	Leu	Leu	Arg	Gln	Ser	Thr	Cys	Tyr			
			275						280							285		
Lys	Gly	Leu	Arg	Arg	Leu	Leu	Ser	Lys	Gln	Glu	Thr	Gly	Thr	Glu	Phe			
290						295						300						
Ser	Gln	Glu	Leu	Arg	Gln	Leu	Val	Gly	Leu	Leu	Ser	Pro	Met	Val	Tyr			
305						310						315					320	
Gln	Glu	Val	Glu	Glu	Gln	Lys	Leu	His	Gln	Ala	Ala	Cys	Leu	Ile	Gln			
			325						330							335		
Ala	Tyr	Trp	Lys	Gly	Phe	Gln	Thr	Arg	Lys	Arg	Leu	Lys	Lys	Leu	Pro			
			340						345							350		

5243

Ser Ala Val Ile Ala Leu Xaa Arg Ser Phe Arg Ser Lys Arg Ser Lys
 355 360 365

Met Leu Leu Glu Ile Asn Arg Gln Lys Glu Glu Glu Asp Leu Lys Leu
 370 375 380

Gln Leu Gln Leu Gln Arg Gln Arg Ala Met Arg Leu Ser Arg Glu Leu
 385 390 395 400

Gln Leu Ser Met Leu Glu Ile Val His Pro Gly Gln Val Glu Lys His
 405 410 415

Tyr Arg Glu Met Gly Arg Glu Ile Ser Thr Asp Tyr Pro Glu Thr Leu
 420 425 430

Glu Xaa Val Xaa Gly Lys Glu Lys Phe Ser Pro Thr Glu Ala Val Ser
 435 440 445

His Arg Ser Ile Lys Ala Thr Val Thr Leu Gln Lys Ser Lys Arg Phe
 450 455 460

Lys Phe Leu Xaa Glu Ile Xaa Arg Xaa Glu Lys Arg Lys Leu Phe Cys
 465 470 475 480

Leu Pro Trp Ala Lys Gly Pro Xaa Lys Glu Thr Ser Thr
 485 490

<210> 5965

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5965

Leu Phe Val Cys Xaa Phe Leu Val Ala Arg Ser Asp Pro Arg Ile Phe
 1 5 10 15

Leu Leu Ser Arg Glu Thr Arg Arg Ile Met Arg Leu Phe Leu Val Ala
 20 25 30

Phe Gln Glu Tyr Glu Glu Lys Asn Gly Ser Gln Ser Gly Phe Glu
 35 40 45

5244

<210> 5966

<211> 65

<212> PRT

<213> Homo sapiens

<400> 5966

Leu His Lys Thr Leu Val Arg Tyr Gln Leu Leu His Arg Glu Ser Ser
1 5 10 15

Tyr Thr Ile Pro Tyr Ile Phe Ile Tyr Leu Leu Phe Tyr Tyr Ser Arg
20 25 30

Ile Thr Lys Leu Asp Ala Leu Ser Gln Phe Phe Ala Thr Glu Asn Tyr
35 40 45

Leu Phe Leu Leu Pro Phe His Thr Pro Cys Ile Tyr Asp Gln Pro Leu
50 55 60

His
65

<210> 5967

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5967

Ala Lys Asn Ile Lys Gly Arg Glu Ile Gly Ile Gln Gly Asp Ser Val
1 5 10 15

Gln Glu Ser Lys Pro Gly Ile Cys Leu Cys Gly Arg Pro Asn His Tyr
20 25 30

Tyr Leu Asn Pro Leu Arg Lys Ala Phe Pro Ala Phe His Asn Ser Gly
35 40 45

Ser Ser Phe Ile Lys Trp Glu Thr His Asn Cys Pro Thr Tyr Leu Thr
50 55 60

Gly Val Leu
65

<210> 5968

<211> 124

<212> PRT

<213> Homo sapiens

5245

<400> 5968

```

Leu Glu Thr Ser Ala Val Tyr Ile Ser Leu Tyr Ser Phe Phe Ser Pro
 1             5             10             15

Leu Pro Met Met Phe Arg Asn Thr Thr Ile Leu Phe Ala Lys His Ser
          20             25             30

Asn Tyr Leu Ile Ser Lys Gln Val Leu Glu Tyr His Arg Asn His Lys
      35             40             45

Thr Ala His Gln Asn Met Pro His Ser Thr Ser Ser Glu Gln Ser Gly
      50             55             60

Lys Arg Thr Ser Arg Ser Trp Lys Ser Gly Leu Val Leu Ser Arg Ser
      65             70             75             80

Thr Lys Asn Leu Asn Ile Ser Asp Asn His Asn Thr Ser Leu Thr Trp
          85             90             95

Glu Arg Ala Val Ile Ile Phe His Arg Gly Gln Asp Gly Ser Leu Asp
          100             105             110

Glu Glu Val Asp Met Pro Phe Pro Asn Ser Arg Lys
      115             120

```

<210> 5969

<211> 87

<212> PRT

<213> Homo sapiens

<400> 5969

```

Ile Cys Pro Arg Ser Pro Ser Lys Val Ser Val Ala Leu Arg Val Arg
 1             5             10             15

Thr Leu Ile Arg Leu Gly Arg Val Leu Glu Ser Leu Arg Arg Gln Glu
      20             25             30

Glu Cys Ala Glu Leu Ser Val Ser Gly Arg Leu Ile His Cys Trp Ala
      35             40             45

His Ile Lys Ala Pro Met Gly Ser Arg Pro Asp Cys Thr Trp Leu Phe
      50             55             60

Cys Trp Lys Lys Ser Met Ala Ala Gln Arg Thr Lys Ile Ser Ser Gly
      65             70             75             80

Lys Ala Ser Phe Asp Cys Gln
          85

```

5246

<210> 5970

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5970

Met	Glu	Arg	Xaa	Gln	Val	Phe	Asn	Ser	Thr	Asn	Ile	Phe	Phe	Ser	Phe
1				5					10					15	

Val	Pro	Phe	Phe	Cys	Leu	Leu	Tyr	Thr	Asp	Ile	Pro	Thr	Leu	Ala	Thr
			20					25					30		

Ala	Gln	Arg	Gly	Ser	Tyr	Leu	Arg	Asn	Thr	Ala	Asp	Phe	Glu	Tyr	Leu
		35					40					45			

Val	Leu	Gln	Ser	His	Leu	Ser	Glu	Ala
	50					55		

<210> 5971

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5971

Glu	Lys	Lys	Lys	Thr	Leu	Lys	Lys	Lys	Ile	Pro	Lys	Tyr	His	Gln	Pro
1				5					10					15	

Arg	Lys	Glu	Lys	Arg	Arg	Gln	Lys	Pro	Leu	Gly	Gly	Phe	Gly	Lys	Glu
			20					25					30		

Ser	Lys	Glu	Lys	Glu	Pro	Lys	Thr	Lys	Gly	Lys	Asp	Ala	Lys	Asp	Gly
		35					40					45			

Lys	Lys	Asp	Ser	Ser	Ala	Ala	Gln	Pro	Gly	Val	Ala	Phe	Ser	Val	Asp
	50						55				60				

5247

Asn Thr Ile Lys Arg Pro Asn Pro Ala Pro Gly Thr Arg Lys Lys Ser
 65 70 75 80
 Ser Asn Ala Glu Val Ile Lys Glu Leu Asn Lys Cys Arg Glu Glu Asn
 85 90 95
 Ser Met Arg Leu Asp Leu Ser Lys Arg Ser Ile His Ile Leu Pro Ser
 100 105 110
 Ser Ile Lys Glu Leu Thr Gln Leu Thr Glu Leu Tyr Leu Tyr Ser Asn
 115 120 125
 Lys Leu Gln Ser Leu Pro Ala Glu Val Gly Cys Leu Val Asn Leu Met
 130 135 140
 Thr Leu Ala Leu Ser Glu Asn Ser Leu Thr Ser Leu Pro Asp Ser Leu
 145 150 155 160
 Asp Asn Leu Lys Lys Leu Arg Met Leu Asp Leu Arg His Asn Lys Leu
 165 170 175
 Arg Glu Ile Pro Ser Val Xaa Val
 180

<210> 5972
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 5972
 Ala His Pro Thr Arg Asn Tyr Val Lys Lys Lys Phe Lys Lys Glu Phe
 1 5 10 15
 Lys Gly Asp Tyr Ser Val Thr Val Thr Pro Gly Lys Leu Arg Thr Leu
 20 25 30
 Cys Glu Ile Asp Trp Pro Ala Leu Glu Val Gly Trp Pro Ser Glu Gly
 35 40 45
 Ser Leu Asp Arg Ser Leu Val Ser Lys Val
 50 55

<210> 5973
 <211> 35
 <212> PRT
 <213> Homo sapiens

5248

<400> 5973

Gly Gln Gln Phe Glu Thr Ser Leu Thr Ile Ser Thr Lys Cys Thr Lys
 1 5 10 15

Val Ser Trp Ala Trp Trp Arg Ala Pro Val Ile Pro Ala Thr Trp Glu
 20 25 30

Thr Asp Ala
 35

<210> 5974

<211> 86

<212> PRT

<213> Homo sapiens

<400> 5974

Arg Asn Ser Gly Phe Cys Cys Asn Arg Phe Ile Phe Leu Leu Phe Ser
 1 5 10 15

Pro Ile Leu Ala Gln Ser Gly Ala Ile Val Leu Leu Val Arg Pro Ser
 20 25 30

Leu Lys Met Arg Ser Arg Glu Ala Gly Pro Lys Leu Arg Arg Ile Gln
 35 40 45

Glu Pro Ala Asn Gly Ser Pro Gly Ala Val Ser Glu Thr Gly Gly Tyr
 50 55 60

Arg Glu Glu Arg Leu Ser Asp Ala Glu Ile Met Gly Lys Leu Leu Ala
 65 70 75 80

Trp Leu Ala Val Gly Met
 85

<210> 5975

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

5249

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5975

Ile Phe Ser Asn Leu Val Phe Phe Tyr Ile Ile Ile Ala Ser Leu Lys

1 5 10 15

Ile Val Leu Gln Ala Xaa His Gly Trp Val Thr Pro Val Tyr Leu Thr

20 25 30

Leu Trp Glu Ala Glu Ala Gly Lys His Leu Lys Ser Gly Xaa Gln Asn

35 40 45

Asn Pro Gly His Trp

50

<210> 5976

<211> 27

<212> PRT

<213> Homo sapiens

<400> 5976

Cys Leu Gly Ala Tyr Ala Asp Tyr Ser Leu Arg Gly Gly Val Glu Arg

1 5 10 15

Arg Arg Arg Tyr Ala Gly Arg Arg Val Leu Cys

20 25

<210> 5977

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

5250

<400> 5977

Val Ser Arg Leu Val Ser Lys Glu Phe Ser Lys Ser Trp Ser Cys Gly
 1 5 10 15

Gly Cys Ser Tyr Ala Ala Gly Ala Val Thr Glu Arg Gln Glu Gly Leu
 20 25 30

Gly Gly Lys Gly Arg Arg Leu Asn Gln Ala Pro Ala Trp Thr Trp Ala
 35 40 45

Cys Val Leu Xaa Ser His Leu Ser Ser Arg Thr Gln Val Gly Lys Ser
 50 55 60

Leu Ser Gly His Xaa Pro Leu Gly Gly Val Gly Leu Ser Val Pro Phe
 65 70 75 80

Leu Ala Val Thr Ser Xaa Cys Ala Arg Val Glu
 85 90

<210> 5978

<211> 224

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

5251

<220>
 <221> SITE
 <222> (140)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (151)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (152)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (213)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (216)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5978
 Ala Leu Val Ser Val Leu Thr Lys Glu Tyr Glu Asp Ala Val Ser Ile
 1 5 10 15
 Ala Thr Ala Val Leu Val Val Val Thr Val Ala Phe Ile Gln Glu Tyr
 20 25 30
 Arg Ser Glu Lys Ser Leu Glu Glu Leu Thr Lys Leu Val Pro Pro Glu
 35 40 45
 Cys Asn Cys Leu Arg Glu Gly Lys Leu Gln His Leu Leu Ala Arg Glu
 50 55 60
 Leu Val Pro Gly Asp Val Val Ser Leu Ser Ile Gly Asp Arg Ile Pro
 65 70 75 80
 Ala Asp Ile Arg Leu Thr Glu Val Thr Asp Leu Leu Val Asp Glu Ser
 85 90 95
 Ser Phe Thr Gly Glu Ala Glu Pro Cys Ser Xaa Thr Asp Ser Pro Leu
 100 105 110
 Thr Gly Gly Gly Xaa Leu Thr Thr Leu Ser Asn Ile Val Phe Xaa Gly
 115 120 125
 Xaa Leu Val Gln Tyr Gly Xaa Gly Gln Gly Val Xaa Ile Gly Thr Gly

5252

130		135		140
Glu Ser Ser Gln Phe Gly Xaa Xaa Phe Lys Met Met Gln Ala Glu Glu				
145		150		155
				160
Thr Pro Lys Thr Pro Leu Gln Lys Ser Met Asp Arg Leu Gly Lys Gln				
	165		170	175
Leu Thr Leu Phe Ser Phe Gly Ile Ile Gly Leu Ile Met Leu Ile Gly				
	180		185	190
Trp Ser Gln Gly Lys Gln Leu Leu Ser Met Phe Thr Ile Gly Val Ser				
	195		200	205
Leu Ala Val Ala Xaa Ile Ser Xaa Gly Ser Ala His Ser Ser Ser Trp				
	210		215	220

<210> 5979

<211> 155

<212> PRT

<213> Homo sapiens

<400> 5979

Pro Cys Cys Ile Trp Lys Ala Lys Trp Gly His Glu Glu Gly Trp Lys				
1		5		10
				15
Gly Gln Gly Val Met Ala Ala Tyr Leu Val Ser Pro Thr Pro Pro Val				
	20		25	30
Leu Gly Glu Pro Ser Cys Tyr Thr Gly Ser Ser Pro Arg Ser Ser Phe				
	35		40	45
Leu Ser Pro Thr Ser Trp Trp Arg Leu Gln Gly Arg Pro Glu Ser Trp				
	50		55	60
Thr Glu Arg Val Thr Gly Gly Val Gly Asp Lys His Gln Thr Ser Ile				
	65		70	75
				80
Val Cys Pro Asp Leu Gly Val Ile Gly Gly Met Gly Trp Glu Arg Val				
	85		90	95
Ser Trp Tyr Ser His Gly Leu Ile Phe Phe Val Ser Ile Pro Phe Ile				
	100		105	110
Ser Leu Cys Leu Asn Arg Gly Gly Gly Val Val Thr Gly Asn Lys Asp				
	115		120	125

5253

Leu Arg Ser Ser Ala Pro Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 130 135 140

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 145 150 155

<210> 5980

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5980

Ile Arg His Glu Gly Thr Leu Pro Leu Gln Arg Val Arg Ala Leu Leu
 1 5 10 15

His Pro Gln Arg Ser Xaa Ala Lys His Leu Arg Gly His Ala Ser Val
 20 25 30

Arg Pro Cys Arg Cys Asn Glu Cys Xaa Lys Ser Phe Ser Arg Arg Asp
 35 40 45

His Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Phe Thr
 50 55 60

Cys Pro Thr Cys Gly Lys Ser Phe Ser Arg Gly Tyr His Leu Ile Arg
 65 70 75 80

His Gln Arg Thr His Ser Glu Lys Thr Ser
 85 90

<210> 5981

<211> 54

<212> PRT

<213> Homo sapiens

<220>

5254

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5981

Phe	Ser	Ser	Pro	Gly	Val	Val	Gly	Arg	Cys	Lys	Leu	Lys	Gly	Thr	Leu
1				5					10					15	

Gly	Gly	Gly	Gly	Arg	Gly	Glu	Asp	Asp	Ser	Asp	Pro	Ser	Pro	Val	Gly
			20					25					30		

Val	Arg	Ile	Thr	Gln	Glu	Leu	Arg	Xaa	Arg	Glu	Glu	Gly	Xaa	Arg	Arg
		35					40					45			

Leu	Gln	Leu	Leu	Gln	Gly
					50

<210> 5982

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5982

Gly	Arg	Gln	Pro	Ala	Pro	Leu	Val	Pro	Pro	Cys	Ser	Ser	Ser	His	Tyr
1				5					10					15	

His	Arg	Pro	His	Thr	Leu	Thr	Arg	Thr	Leu	Thr	His	Arg	Ser	Leu	Gln
			20					25					30		

Arg	Met	Arg	Trp	Gly	Tyr	Asp	Arg	Ser	Leu	Arg	Leu	Val	Ser	Xaa	Ser
		35					40					45			

Leu	Leu	Gln	Pro	Pro	Pro	Gly	Phe	Gln	Pro	Ile	Leu	Phe	Ala	Ala	Gly
		50				55					60				

Val	Pro	Thr	Leu	Pro	Tyr	Ser	Gln	Leu	Leu	Phe	Pro	Ala	Asp	Gly	Glu
		65				70				75					80

Met	Asp	Ser	Ala	Ala	Tyr	Pro	Pro	Thr	Pro	Leu	Gln	Gly	Val	Glu	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5255

85

90

95

<210> 5983

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5983

Glu Lys Thr Gln Val Cys Asp Ile Ser Val Ile Pro Lys Asn Ile Leu
 1 5 10 15

Gly Phe Leu Phe Val Phe Leu Phe Phe Gly Phe Phe Phe Phe Thr Ala
 20 25 30

Glu Asn Trp Trp Tyr Phe His Ile His Ser Val Ser Ile Gln Phe Gln
 35 40 45

Tyr Pro His Leu Met Arg Lys Lys Cys Phe Thr Asn Glu Gly Gly Ile
 50 55 60

Leu Lys Leu Ala Val Met Leu Gly Trp Arg Lys Phe Gly Ile
 65 70 75

<210> 5984

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5984

Lys Ile Thr Met Trp Met Ala Val Ser His Ile Thr Asp Val Glu Ser
 1 5 10 15

Ile Ile Leu Tyr Leu Tyr Phe Gln Ile Asn Lys Phe Val Lys Gly Phe
 20 25 30

His Pro Leu Leu Trp Ser Arg Lys Met Leu Glu Ile Tyr Ile Xaa Ile
 35 40 45

Asp Thr Tyr Ile Cys Ile Tyr Ile Lys Lys Ile Leu Thr Thr Lys Val

5256

50 55 60
 Pro Glu Pro Pro Ser Lys Val Leu Tyr Tyr Cys Ile Leu Tyr Ile Met
 65 70 75 80
 Tyr His Pro Met Trp Asn Leu
 85

 <210> 5985
 <211> 101
 <212> PRT
 <213> Homo sapiens

 <400> 5985
 Asp Lys Ser Ile Lys Asn Lys Ala Glu Arg Glu Arg Arg Val Arg Glu
 1 5 10 15
 Leu Asn Ser Ser Asn Thr Lys Lys Phe Leu Glu Glu Arg Lys Arg Leu
 20 25 30
 Ala Met Lys Gln Ser Lys Glu Met Asp Gln Leu Lys Lys Val Gln Leu
 35 40 45
 Glu His Leu Glu Phe Leu Glu Lys Gln Asn Glu Gln Leu Leu Lys Ser
 50 55 60
 Cys His Ala Val Ser Gln Thr Gln Gly Glu Gly Asp Ala Ala Asp Gly
 65 70 75 80
 Glu Ile Gly Ser Arg Asp Gly Pro Gln Thr Ser Asn Ser Ser Met Lys
 85 90 95
 Leu Gln Asn Ala Asn
 100

<210> 5986
 <211> 216
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5986
 Lys Ser Ser Arg Gly Asn Thr Gln Ala Thr Ser His Ser Phe Asp Val

5257

1	5	10	15
Arg Val Leu Thr Gln Leu Leu Leu Asn Ser Asp His Arg Ser Thr Ala	20	25	30
Thr Val Gln Ile Cys Ser Gly Ser Val Asn Leu Lys Gly Ala Val Lys	35	40	45
Cys Arg Ala Tyr Ile His Ser Ser Lys Pro Lys Val Lys Asp Ala Val	50	55	60
Gln Ala Val Lys Arg Asp Ile Leu Asn Thr Val Ala Asp Arg Cys Glu	65	70	75
Met Leu Phe Glu Asp Leu Leu Leu Asn Glu Ile Pro Glu Lys Lys Xaa	85	90	95
Ser Glu Lys Glu Phe His Val Leu Pro Tyr Arg Val Phe Val Pro Leu	100	105	110
Pro Gly Ser Thr Val Met Leu Cys Asp Tyr Lys Phe Asp Asp Glu Ser	115	120	125
Ala Glu Glu Ile Arg Asp His Phe Met Glu Met Leu Asp His Thr Ile	130	135	140
Gln Ile Glu Asp Leu Glu Ile Ala Glu Glu Thr Asn Thr Ala Cys Met	145	150	155
Ser Ser Ser Met Asn Ser Gln Ala Ser Leu Asp Asn Thr Asp Asp Glu	165	170	175
Gln Pro Lys Gln Pro Ile Lys Thr Thr Met Leu Leu Lys Ile Gln Gln	180	185	190
Asn Ile Gly Val Ile Ala Ala Phe Thr Val Ala Val Leu Ala Ala Gly	195	200	205
Ile Ser Phe His Tyr Phe Ser Asp	210	215	

<210> 5987

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5987

Pro Phe Leu Val Ser Val Phe Pro Gly Glu Asn Glu Ala Lys Gln Glu	1	5	10	15
---	---	---	----	----

5258

Phe Gly Phe Leu Leu Met Ser Ser Tyr Thr Ile His Ser Val Asn Phe
 20 25 30

Glu Lys Ile Tyr Pro Pro Phe Ser Leu Leu Gly Asp Ile Asn Tyr Ser
 35 40 45

Gln Glu Glu Tyr Asn Glu Leu Tyr Ser Tyr Phe Asp Leu Leu Lys Arg
 50 55 60

Cys Tyr Gln
 65

<210> 5988

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5988

Pro Ala Glu Leu Lys Cys Ala Val Thr Ser Gln Cys Glu Phe Leu Pro
 1 5 10 15

Asn Ser Arg Ala Tyr His Leu Lys Lys Glu Arg Thr Glu Glu Gln Thr
 20 25 30

Lys Val Leu Arg Asn Glu Thr His Leu Phe Ser Leu Lys Ala Leu Arg
 35 40 45

Gly Gly Arg Arg Pro Ala Gln Ala Gly Gly Gly Phe Gly Gln Ser Glu

5259

50 55 60
 Asp Pro Ala Arg Thr Leu Val Arg Trp Xaa Ala Ala His Leu Leu Arg
 65 70 75 80
 Ile Leu Leu Glu Ser Cys Ser Pro Arg Gly Leu Leu Xaa Xaa Trp Xaa
 85 90 95
 Lys Glu Ala Ala Trp Cys Gly Val Thr Gln Ile Ser Ile Pro Ile Cys
 100 105 110
 Cys Thr Phe Thr Leu Gln Gly Thr Cys Phe Lys Thr Asp Pro Gln Gln
 115 120 125
 Val Leu Glu Lys Cys Ile Gln Ser Glu Asp Val Cys Val Ser Val Tyr
 130 135 140
 Ile Gln Ser Ser Val Thr His Ala Pro Gln Ile Ala Ala Lys Ile Pro
 145 150 155 160
 Arg His

<210> 5989

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5989

Asn Cys Ala Phe Ser Gly Leu Leu Ser Ser Ile Pro Ser Phe Ser Leu
 1 5 10 15

Leu Ser Ser Phe Gln His Val Thr Val Lys Ala Phe Ser Leu Ile Phe
 20 25 30

Tyr His Cys Glu Tyr Val Pro Phe Glu Asn Pro Phe Ala Val Ile Phe
 35 40 45

Val Gly Phe Gly Glu Glu Ala Val Val Asn Ala Cys Ile Ile Leu Ser

5260

50 55 60
 Ser Lys Cys Ser Met Leu Ala Leu Leu Ile Ser Gly Asp Val Arg Xaa
 65 70 75 80
 Gln Leu Leu Ser Leu Xaa Lys
 85

<210> 5990
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 5990
 Arg Pro Ala Glu Asp Val Leu Gln Val Arg Glu Thr Gly Pro Gly Asn
 1 5 10 15
 Pro Ala Val Thr Glu Asp Tyr Ile Glu Phe Glu Asn Val Gly Ile Phe
 20 25 30
 Glu Asn Ala Pro Pro Lys Lys Leu Leu Met Ser Ser Gly Asn Val Arg
 35 40 45
 Arg Leu Ile Tyr Thr Asp Thr Ala Glu Glu Lys Gly Arg Arg Ile Lys
 50 55 60
 Asp Pro Val Leu Leu Pro Gly
 65 70

<210> 5991
 <211> 217
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (104)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (120)

5261

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5991

Gly	Tyr	Trp	Thr	Phe	Asp	Met	Glu	Cys	Tyr	Lys	Lys	Tyr	Arg	Lys	Val
1				5					10					15	

Trp	Gly	Ile	Tyr	Asp	Cys	Gln	Gln	Pro	Met	Leu	Ala	Ile	Thr	Asp	Pro
			20					25					30		

Asp	Met	Ile	Lys	Thr	Val	Leu	Val	Lys	Glu	Cys	Tyr	Ser	Val	Phe	Thr
	35					40						45			

Asn	Arg	Xaa	Pro	Phe	Gly	Pro	Val	Gly	Phe	Met	Lys	Asn	Ala	Ile	Ser
	50					55					60				

Ile	Ala	Glu	Asp	Glu	Glu	Trp	Lys	Arg	Ile	Arg	Ser	Leu	Leu	Ser	Pro
65				70					75						80

Thr	Phe	Thr	Ser	Gly	Lys	Leu	Lys	Glu	Met	Phe	Pro	Ile	Ile	Ala	Gln
				85					90					95	

Tyr	Gly	Asp	Val	Leu	Val	Arg	Xaa	Leu	Arg	Arg	Glu	Ala	Glu	Lys	Gly
			100					105					110		

Lys	Pro	Val	Thr	Leu	Lys	Asp	Xaa	Phe	Gly	Ala	Tyr	Ser	Met	Asp	Val
		115				120						125			

Ile	Thr	Xaa	Thr	Ser	Phe	Gly	Val	Xaa	Ile	Asp	Ser	Leu	Asn	Asn	Pro
	130					135					140				

Gln	Asp	Pro	Phe	Val	Glu	Ser	Thr	Lys	Lys	Phe	Leu	Lys	Phe	Gly	Phe
145					150					155					160

Leu	Asp	Pro	Leu	Phe	Leu	Ser	Ile	Ile	Leu	Phe	Pro	Phe	Leu	Thr	Pro
				165					170					175	

Val	Phe	Glu	Ala	Leu	Asn	Val	Ser	Leu	Phe	Pro	Lys	Asp	Thr	Ile	Asn
			180					185					190		

Phe	Leu	Ser	Lys	Ser	Val	Asn	Arg	Met	Lys	Lys	Ser	Arg	Leu	Asn	Asp
		195					200					205			

5262

Lys Gln Lys Val Lys Ser Asp Gly Gly
 210 215

<210> 5992

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5992

Val Pro Pro Ala Cys Cys Ala Ser Arg Val Ala Arg Leu Gly Phe Ser
 1 5 10 15

Arg Cys Thr Cys Pro Arg Trp Pro Gly Pro Xaa Ala Xaa Arg Ala Ala
 20 25 30

Ala Gly Ala Leu Pro Arg Gly Gln Val Arg Ile Trp Pro Arg Ser His
 35 40 45

Pro Ser Ser Thr Ala Arg Thr Pro His Ser Leu Pro Gln Ser Ile Cys
 50 55 60

Leu Ser Pro Met Gly Lys Leu Ile Asn Phe Ala Leu Asp
 65 70 75

<210> 5993

<211> 68

<212> PRT

<213> Homo sapiens

<400> 5993

Lys Met Leu Asn Arg Phe His Asp Cys Leu Leu Glu Asp Phe Lys Val
 1 5 10 15

His Cys Gly Ser Ser Arg Arg Asn Pro Val Asn His Ser Ser His Leu
 20 25 30

5263

Pro Thr Gly Leu Phe Ser Asn Gly Ala Ser Cys Glu Ala Ser Gly Phe
 35 40 45

Phe Cys Cys Cys Tyr Leu Phe Phe Phe Phe Asn Ala Leu Glu Asn Thr
 50 55 60

Ala Leu Gly Tyr
 65

<210> 5994

<211> 128

<212> PRT

<213> Homo sapiens

<400> 5994

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Leu Leu Ser Pro Ala
 1 5 10 15

Leu Pro Cys Thr Val His Ser Ser Ser Thr Met Ala Ser Arg Thr Pro
 20 25 30

Arg Asn Cys Ala Val Leu Lys Gly Glu Val Asp Leu Thr Ala Leu Ala
 35 40 45

Lys Glu Leu Arg Ala Val Glu Asp Val Arg Pro Pro His Lys Val Thr
 50 55 60

Asp Tyr Ser Ser Ser Ser Glu Glu Ser Gly Thr Thr Asp Glu Glu Asp
 65 70 75 80

Asp Asp Val Glu Gln Glu Gly Ala Asp Glu Ser Thr Ser Gly Pro Glu
 85 90 95

Asp Thr Arg Ala Ala Ser Ser Leu Asn Leu Ser Asn Gly Glu Thr Glu
 100 105 110

Ser Val Lys Thr Met Ile Val His Asp Asp Val Glu Ser Glu Pro Ala
 115 120 125

<210> 5995

<211> 52

<212> PRT

<213> Homo sapiens

5264

<400> 5995

His Ser Leu Lys Tyr Ile Tyr Leu Ile Thr Phe Tyr Asn Lys Glu Leu
 1 5 10 15

Leu Ser Pro Asn Val Ile Ser Ala His Phe Glu Ile Pro Cys Tyr Arg
 20 25 30

Trp Ser Leu Gln Thr Arg Lys Tyr Ser Ser Tyr Tyr Val Tyr Thr Leu
 35 40 45

Val Leu Val Leu
 50

<210> 5996

<211> 75

<212> PRT

<213> Homo sapiens

<400> 5996

Ile Ser Pro Gly Gln Ser Gly Met Leu Thr Gly Thr Asn Val Arg Asn
 1 5 10 15

Cys Ile Val His Cys Thr Cys Cys Pro Val Pro Gln Ala Cys Gln Cys
 20 25 30

Leu Glu Ile Leu Phe Gly Leu Leu Lys Pro Leu Phe Ile Glu Asn Phe
 35 40 45

Cys Pro Tyr Arg Ser Val Cys Met Gly Leu Gly Lys Ser Thr Cys Val
 50 55 60

Tyr Leu Ser Ser Glu Ala Gln Ile His Ser Asn
 65 70 75

<210> 5997

<211> 63

<212> PRT

<213> Homo sapiens

<400> 5997

Pro Asp Leu Phe Ala His Arg Glu Val Pro Leu Ser Leu His Gly Leu
 1 5 10 15

Ser Asp Leu Ile Pro Pro His Ser Gln Phe Gln Val Val Glu Gln Asp
 20 25 30

Glu Ala Ala Pro Ser Pro Leu Pro His Pro Asp Ser Ala Ala Glu Phe

```

35
40
45
Ile Pro Gln Glu Arg Gly Ser Thr Asp Ser Val His Ala Cys Gly
50 55 60

<210> 5998
<211> 226
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (218)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5998
Xaa Ser Ala Ser Leu Xaa Glu Gln Lys Leu Glu Leu His Arg Gly Gly
1 5 10 15
Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr
20 25 30
Arg Ser Gly Gly Pro Arg Leu Pro Gln Ala Gln Lys Thr Ala Ala Leu
35 40 45

```

5266

Pro Arg Thr Arg Gly Ala Gly Leu Leu Glu Ser Glu Leu Arg Asp Gly
 50 55 60
 Ser Gly Lys Lys Val Ala Val Ala Asp Val Gln Phe Gly Pro Met Arg
 65 70 75 80
 Phe His Gln Asp Gln Leu Gln Val Leu Leu Val Phe Thr Lys Glu Asp
 85 90 95
 Asn Gln Cys Asn Gly Phe Cys Arg Ala Cys Glu Lys Ala Gly Phe Lys
 100 105 110
 Cys Thr Val Thr Lys Glu Ala Gln Ala Val Leu Ala Xaa Phe Leu Asp
 115 120 125
 Lys His His Asp Ile Ile Ile Ile Asp His Arg Asn Pro Arg Gln Leu
 130 135 140
 Asp Ala Glu Ala Leu Cys Arg Ser Ile Arg Ser Ser Lys Leu Ser Glu
 145 150 155 160
 Asn Thr Val Ile Val Gly Val Val Arg Xaa Val Asp Arg Glu Glu Leu
 165 170 175
 Ser Val Met Pro Phe Ile Ser Ala Gly Phe Thr Arg Arg Tyr Val Glu
 180 185 190
 Asn Pro Asn Ile Met Ala Cys Tyr Asn Glu Leu Leu Gln Leu Glu Phe
 195 200 205
 Gly Glu Gly Ala Ile Thr Thr Xaa Thr Xaa Gly Leu Leu Leu Lys Tyr
 210 215 220
 Ser Leu
 225

<210> 5999

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5999

Gly Xaa Val Gly Pro Ser Leu Val Ser Arg Ile Glu Asn Ile Gln Asn

5267

1 5 10 15
 Asp Ile Ser Leu Val Ser Phe Glu Gly Asn Asn Gln Arg Trp Ser Thr
 20 25 30
 Gln Leu Leu Val Leu Leu Phe Thr Ile Ser His Leu Val Gln Ser Gly
 35 40 45
 Ser Tyr Ile
 50

<210> 6000

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6000

Val Leu Asn Ser Met Leu Lys Ser Asn Trp Ile Trp Ser Arg Pro Thr
 1 5 10 15

Pro Arg Val Val Ser Gly Val Phe Phe Gln Xaa Leu Ser Gln Thr Thr
 20 25 30

Gln Val Xaa Leu Xaa Leu Xaa Ala Ala Leu Trp Xaa Gly Val Glu Gly

35

45

Lys Lys Pro Glu Ile Phe Thr Arg Thr Ser Lys Thr Arg Ser Gly Glu
65 70 75 80

Leu Gly Arg

<210> 6001

<211> 146

<212> PRT

<213> Homo sapiens

<400> 6001

Arg Cys Pro Ile Ala Ser Glu Val Pro Trp Thr Ile Thr Glu Ala Glu
1 5 10 15

Leu Arg Val Thr Leu Thr Val Glu Gly Lys Ser Ile Pro Cys Leu Ile
20 25 30

Asp Thr Gly Ala Thr His Ser Thr Leu Pro Ser Phe Gln Gly Pro Val
35 40 45

Ser Leu Ala Pro Ile Thr Val Val Gly Ile Asp Gly Gln Ala Ser Lys
50 55 60

Pro Leu Lys Thr Pro Pro Leu Trp Cys Gln Leu Gly Gln His Ser Phe
65 70 75 80

Met His Ser Phe Leu Val Ile Pro Thr Cys Pro Leu Pro Leu Leu Gly
85 90 95

Arg Asn Ile Leu Thr Lys Leu Ser Ala Ser Leu Thr Ile Pro Gly Val
100 105 110

Gln Leu His Leu Ile Ala Ala Leu Leu Pro Asn Pro Lys Pro Pro Leu
115 120 125

Cys Pro Leu Thr Ser Pro Gln Tyr His Pro Leu Pro Gln Asp Leu Pro
130 135 140

Ser Ala
145

5269

<210> 6002

<211> 111

<212> PRT

<213> Homo sapiens

<400> 6002

```

Ile Pro Tyr Ser Ala Tyr Ile Lys Ser Lys Met Trp Gly Arg Ser Leu
 1              5              10              15

Leu Leu Pro Gly Gly Asp Gly Ser Pro Leu Thr Leu Leu Gly Glu Gly
          20              25              30

Gly Ser Cys Trp Pro Val Gly Met Lys Val Leu Ala Pro His Leu Val
          35              40              45

Phe Pro Asp Thr Thr Ala Val Gly Cys Trp Gly Ala Pro Leu Gln Pro
          50              55              60

Phe Glu Cys Gly Ile Leu Gly Ser Pro Leu Asp Leu Pro Trp Cys Gly
          65              70              75              80

Gln Arg Phe Phe Leu Trp Cys Leu Leu Gly Val Glu Gln Leu Ser Ser
          85              90              95

Lys Ser Phe Leu Ser Cys Trp Asp Val Leu Phe Trp Ser Phe Ser
          100             105             110

```

<210> 6003

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6003

```

Arg Trp Ala Leu Asp Leu Leu Ile Leu Val Lys Trp Val Trp Asp Leu
 1              5              10              15

Leu Thr Phe Val Leu Arg Arg Asp Arg Pro Gly Lys Glu Leu Gly Glu
          20              25              30

Val Ser Ser Lys Glu Arg Gly Val Gly Thr Arg Met Glu Glu Ser Gly
          35              40              45

Leu Gln Ile Ala Phe Thr Ser Pro Phe Phe Leu Glu Ser Leu Ser Xaa
          50              55              60

```

5270

Arg
65

<210> 6004

<211> 427

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (301)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6004

Ala	Ala	Cys	Cys	Phe	Ser	Cys	Trp	Ala	Ser	Ser	Gly	Phe	Ala	Phe	Val
1				5					10					15	

Ala	Ser	Glu	Pro	Leu	Ala	Phe	Lys	Pro	Leu	Ser	Leu	Leu	Leu	Pro	His
			20					25					30		

Thr	Pro	Leu	Ser	Leu	Thr	Pro	Leu	Phe	Cys	Cys	Pro	Val	Thr	Cys	Pro
		35					40					45			

Lys	Leu	Cys	Pro	Glu	Leu	Arg	Thr	Phe	Pro	Phe	Leu	Ser	Leu	Glu	Pro
	50					55					60				

Phe	Phe	Asp	Ser	Thr	Lys	Pro	Ser	Trp	Tyr	Pro	Gly	Met	Thr	Arg	Leu
65					70					75					80

Leu	Asp	Ala	Glu	Trp	Trp	Arg	Arg	Ser	Glu	Ala	Gly	His	Leu	Arg	Arg
				85					90					95	

Gln	Val	Ala	Ala	Val	Leu	Phe	Phe	Pro	Glu	Gly	Thr	Cys	Ser	Asn	Lys
			100					105					110		

Lys	Ala	Leu	Leu	Lys	Phe	Lys	Pro	Gly	Ala	Phe	Ile	Ala	Gly	Val	Pro
		115					120					125			

Val	Gln	Pro	Val	Leu	Ile	Arg	Tyr	Pro	Asn	Ser	Leu	Asp	Thr	Thr	Ser
	130					135					140				

Trp	Ala	Trp	Arg	Gly	Pro	Gly	Val	Leu	Lys	Val	Leu	Trp	Leu	Thr	Ala
145					150					155					160

Ser	Gln	Pro	Cys	Ser	Ile	Val	Asp	Val	Glu	Phe	Leu	Pro	Val	Tyr	His
				165					170					175	

Pro	Ser	Pro	Glu	Glu	Ser	Arg	Asp	Pro	Thr	Leu	Tyr	Ala	Asn	Asn	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5271

180	185	190
Gln Arg Val Met Ala Gln Ala Leu Gly Ile Pro Ala Thr Glu Cys Glu		
195	200	205
Phe Val Gly Ser Leu Pro Val Ile Val Val Gly Arg Leu Lys Val Ala		
210	215	220
Leu Glu Pro Gln Leu Trp Glu Leu Gly Lys Val Leu Arg Lys Ala Gly		
225	230	235
Leu Ser Ala Gly Tyr Val Asp Ala Gly Ala Glu Pro Gly Arg Ser Arg		
	245	250
Met Ile Ser Gln Glu Glu Phe Ala Arg Gln Leu Gln Leu Ser Asp Pro		
	260	265
Gln Thr Val Ala Gly Ala Phe Gly Tyr Phe Gln Gln Asp Thr Lys Gly		
	275	280
Leu Val Asp Phe Arg Asp Val Ala Leu Ala Leu Ala Xaa Leu Asp Gly		
	290	295
Gly Arg Ser Leu Glu Glu Leu Thr Arg Leu Ala Phe Glu Leu Phe Ala		
305	310	315
Glu Glu Gln Ala Glu Gly Pro Asn Arg Leu Leu Tyr Lys Asp Gly Phe		
	325	330
Ser Thr Ile Leu His Leu Leu Leu Gly Ser Pro His Pro Ala Ala Thr		
	340	345
Ala Leu His Ala Glu Leu Cys Gln Ala Gly Ser Ser Gln Gly Leu Ser		
	355	360
Leu Cys Gln Phe Gln Asn Phe Ser Leu His Asp Pro Leu Tyr Gly Lys		
	370	375
Leu Phe Ser Thr Tyr Leu Arg Pro Pro His Thr Ser Arg Gly Thr Ser		
385	390	395
Gln Thr Pro Asn Ala Ser Ser Pro Gly Asn Pro Thr Ala Leu Ala Asn		
	405	410
Gly Thr Val Gln Ala Pro Lys Gln Lys Gly Asp		
	420	425

<210> 6005

<211> 68

5272

<212> PRT

<213> Homo sapiens

<400> 6005

Ile Tyr Thr Asn Arg Lys Leu Gly Thr Asn Leu Leu Cys Leu Trp Leu
 1 5 10 15

Leu Tyr Asn Tyr Gln Gly Lys Gly Asn Leu Pro Ile Lys Tyr Lys Val
 20 25 30

Val Lys Phe Lys Ile Thr Ile Ile Asn Asn Val Leu Leu Leu Gln Asn
 35 40 45

Glu Met Leu Gly Leu Ile Ile Glu Gly Ser Ser Thr Val Glu Ile Glu
 50 55 60

Leu Asn Gly Ser
 65

<210> 6006

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6006

Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Val Lys Leu Xaa Phe
 1 5 10 15

Xaa Tyr Gln Tyr Met His Val Leu Cys Met Ser Ser Thr Cys Val Asp
 20 25 30

Thr Pro Val Asp Val Lys Leu Leu Tyr Asn Ile Asn Ser Met Cys Phe
 35 40 45

Tyr Ile Ser Leu Cys Lys Phe Asn Ile Thr Tyr Ala Val Ile Asn His
 50 55 60

Leu Phe Tyr Cys Cys
 65

5273

<210> 6007

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6007

Gln	Met	Glu	Gly	Tyr	Phe	Ser	Val	Leu	Ala	Phe	Gln	Leu	Tyr	Val	Gly
1				5				10					15		

Lys	Leu	Pro	Val	Leu	Leu	Gln	Val	Gln	Ser	Thr	Leu	Asp	Asp	Leu	Ser
			20					25					30		

Ile	Asn	Tyr	Ser	Gly	Cys	Asn	Ser	Pro	Lys	Xaa	Ser	Ser	Tyr	Ile	Phe
		35					40					45			

Trp	Leu	Ile	Pro	Pro	His	Leu	Ser	Ile	Gln	Ser	Asp	Gly	Lys	Arg	Gly
	50					55					60				

5274

Arg Trp Ile Leu Met Ser Cys Xaa Leu Xaa Pro Tyr Phe Gln Val Leu
 65 70 75 80

Trp Trp Xaa Arg Xaa Asn Ile Cys Gln Xaa Ser Gly Phe Leu Ala Arg
 85 90 95

Cys

<210> 6008

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6008

Ile Ile Leu Tyr Gln Gly Gln Arg Asp Phe Cys Arg Thr Ser Pro Leu
 1 5 10 15

Glu Glu Leu Ser Leu Gly Arg Asn Thr Arg Ile Asn Ile Ser Thr Tyr
 20 25 30

Ser Ser Pro Lys Asn Phe Pro Pro His Tyr Ser His Leu Pro Ile Asn
 35 40 45

Asn Leu Leu Trp Val Asn Ile Gln His Ser Val Leu Val Gln Ser Ile
 50 55 60

Cys Ser Ala Ile Thr Val Xaa Ser Thr Xaa
 65 70

<210> 6009

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5275

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6009

Met	Pro	Gly	Ile	Val	Cys	Lys	Gly	Ile	Val	Asp	Asn	Lys	Val	Ile	Leu
1				5				10					15		

Met	Thr	Arg	Xaa	Lys	Ser	Phe	Leu	Leu	Ser	Leu	Ile	Arg	Pro	Leu	Val
			20				25					30			

Gly	Trp	Gly	Val	Gly	Arg	Arg	Val	Val	Leu	Thr	Glu	Ser	Phe	Lys
		35					40					45		

<210> 6010

<211> 150

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6010

Gly	Val	Tyr	Leu	Asn	Val	Leu	Pro	Ser	Pro	Phe	Pro	Ser	Arg	Leu	Cys
1				5				10					15		

Ser	Phe	Glu	Gly	Leu	Gly	Val	Cys	Ser	Arg	Pro	Cys	Cys	Leu	Ala	Gln
			20				25						30		

Asn	Met	Leu	Arg	Lys	Val	Leu	Arg	Thr	His	Phe	Phe	Pro	Ile	Lys	Pro
		35				40						45			

Ile	Ser	Phe	Pro	Asn	His	Lys	Gly	Val	Cys	Asp	Ser	Ser	Pro	Arg	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5276

50		55		60											
Thr	Lys	Glu	Leu	Gln	Xaa	Gly	Val	Trp	Phe	Ser	Pro	Val	Gln	Thr	His
65					70					75					80
Pro	Glu	Leu	Xaa	Arg	Cys	Leu	Ser	Asn	Thr	Leu	Ser	Leu	Pro	Lys	Gln
				85					90					95	
Pro	Val	Gln	Thr	Phe	Ser	Leu	Gly	His	Glu	Ala	Pro	Arg	Val	Leu	Pro
			100					105					110		
Val	Pro	Xaa	Ser	Asp	Ala	Tyr	Leu	Ser	Ala	Glu	Pro	Gln	Asn	Leu	Cys
		115					120					125			
Ser	Gly	Asn	Ala	Val	His	Leu	Leu	Ser	Val	Gly	Ser	Glu	His	Ile	Val
		130				135					140				
Leu	Xaa	Asp	Thr	Ser	Phe										
145					150										

<210> 6011

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

5277

<400> 6011

```

Val Leu Arg Met Gln His Gly Ser Gly Phe Gly Ile Xaa Phe Asn Ala
 1             5             10             15

Thr Asp Ala Leu Arg Cys Val Asn Asn Tyr Gln Gly Met Leu Lys Val
          20             25             30

Ala Cys Ala Glu Glu Trp Gln Glu Ser Arg Thr Glu Gly Glu His Ser
          35             40             45

Lys Glu Val Ile Lys Pro Tyr Asp Trp Thr Tyr Xaa Xaa Asp Tyr Lys
          50             55             60

Gly Xaa Leu Leu Gly Glu Ser Leu Lys Leu Lys Val Xaa Ser Ile
          65             70             75

```

<210> 6012

<211> 81

<212> PRT

<213> Homo sapiens

<400> 6012

```

Ile Phe Arg Ser Asp Phe Leu Leu His Phe Tyr Leu Thr Lys Glu Thr
 1             5             10             15

Gly His Thr Pro Trp Phe Arg Asp Val Val Ile Ala Tyr Leu Pro Val
          20             25             30

Phe Lys Lys Cys Phe Leu Gln Leu Leu Ser Thr Thr Val Leu Ser Leu
          35             40             45

Met Asn Thr Val Val Ser His Pro Asn Ser Cys Thr Glu Ile Ile Ser
          50             55             60

His Glu Ser Phe Ser Asn Ile Ser Asn Glu Ser Phe Ser Asn Leu Gly
          65             70             75             80

Ala

```

<210> 6013

<211> 112

<212> PRT

<213> Homo sapiens

<220>

5278

<221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (94)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (98)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (107)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6013
 Gln Leu Pro Val Gln Gly His Gly Leu Phe Gly Ala Gln Glu Val Leu
 1 5 10 15
 Asn His Val Leu Arg Asp Ile Glu Leu Phe Met Gly Lys Leu Glu Lys
 20 25 30
 Ala Gln Ala Lys Thr Ser Xaa Lys Lys Lys Phe Gly Lys Lys Asn Lys
 35 40 45
 Asp Gln Gly Gly Leu Thr Gln Ala Gln Tyr Ile Asp Cys Phe Gln Lys
 50 55 60
 Ile Lys His Ser Phe Asn Leu Leu Gly Arg Leu Ala Thr Trp Leu Lys
 65 70 75 80
 Glu Thr Ser Ala Pro Glu Leu Val His Ile Leu Phe Lys Xaa Leu Asn
 85 90 95
 Phe Xaa Leu Ala Arg Cys Pro Glu Ala Gly Xaa Ala Ala Gln Val Ile
 100 105 110

 <210> 6014
 <211> 95
 <212> PRT
 <213> Homo sapiens

5279

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5280

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6014

Leu	Glu	Glu	Asp	Ile	Ser	Lys	Lys	Met	Asp	Lys	Asp	Glu	Glu	Ala	Leu
1					5				10					15	

Lys	Ala	Ala	Gln	Ala	Glu	Leu	Xaa	Glu	Ala	Arg	Arg	Gln	Trp	His	His
			20					25					30		

Leu	Gln	Val	Glu	Ile	Glu	Ser	Leu	His	Ala	Val	Glu	Arg	Gly	Leu	Glu
		35					40					45			

Asn	Ser	Leu	His	Ala	Xaa	Glu	Gln	His	Tyr	Gln	Met	Gln	Leu	Gln	Asp
		50					55				60				

Leu	Glu	Thr	Val	Xaa	Xaa	Gly	Leu	Glu	Lys	Glu	Leu	Gln	Xaa	Val	Lys
	65					70				75					80

Xaa	Xaa	Xaa	Xaa	Lys	Ala	Ala	Phe	Lys	Xaa	Thr	Xaa	Xaa	Xaa	Phe	
				85					90					95	

<210> 6015

<211> 29

<212> PRT

<213> Homo sapiens

<400> 6015

Leu	Arg	Ala	His	Thr	Val	Arg	His	Glu	Glu	Lys	Val	Pro	Cys	His	Val
1					5					10				15	

Cys	Gly	Lys	Met	Leu	Ser	Pro	Ala	Asp	Pro	Phe	Asn	Phe			
			20					25							

<210> 6016

<211> 53

5281

<212> PRT

<213> Homo sapiens

<400> 6016

Gln Gly Pro Thr Glu Val Lys Glu Gly Gly Trp Glu Cys Tyr Ser Leu
1 5 10 15

Glu Trp Arg Cys Asp Phe Ser Arg Trp Lys Val Val Phe Leu Lys Gly
20 25 30

Ile Gly Arg Ser Arg Phe Leu Leu Ile Gln Ile His Phe Pro Pro Thr
35 40 45

Glu Gly Arg Asn Tyr
50

<210> 6017

<211> 29

<212> PRT

<213> Homo sapiens

<400> 6017

Pro Arg Val Val Phe His Leu Asn Leu His Pro Pro Pro Pro Gly Asp
1 5 10 15

Tyr Phe Glu Ile Asn Leu Arg His Gln Gly Gln Ala Gln
20 25

<210> 6018

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

5282

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6018

Ser Phe His Asn Thr Leu Ala Phe Pro Tyr Leu Tyr Gly Leu Tyr Leu
 1 5 10 15

Val Asn Leu Asn Lys Asn Leu Asp Phe Lys Lys Asn Trp Glu Arg Arg
 20 25 30

Xaa Val Ile Leu Leu Ala Phe Ser Ser Leu Asp Val Gly Ser His Asn
 35 40 45

Ser Asn Ile Glu Gly Lys Phe Cys Phe Cys Lys Ile Gly Leu Lys Leu
 50 55 60

Arg Ser Phe His Glu Arg Xaa Xaa Xaa Thr Cys Thr Ser Ala
 65 70 75

<210> 6019

<211> 59

<212> PRT

<213> Homo sapiens

<400> 6019

Ser Ala Thr Cys Leu Phe Glu Val Leu Tyr Gln Ser Val Thr Arg Ala
 1 5 10 15

Phe Cys Val Cys Ala Ile Leu Cys Leu Ser Phe Lys Val Ala Pro Lys
 20 25 30

Val Ser His Leu Ala Phe Gln Gln Gly His Phe Leu Ser Phe Tyr Asn
 35 40 45

Met Gln Tyr Ile Cys Asn Asp Leu Ala Phe Phe
 50 55

<210> 6020

<211> 62

<212> PRT

<213> Homo sapiens

<400> 6020

Arg Ser His Ile Leu Leu Leu Ser Gly Cys Phe Ser Ile Leu Cys Pro

5283

1 5 10 15
 Phe Pro Gln Gln Gln Val Gly Pro Arg Leu Cys Thr Ala Leu Arg Cys
 20 25 30
 Arg Trp Tyr Arg Asp Asn Cys Leu Asn Ser Cys Ala Asp Phe Cys Asn
 35 40 45
 Ser Ala Val Glu Thr Lys Val Leu Glu Ser Val Leu Ser Met
 50 55 60

<210> 6021

<211> 216

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6021

Ser Gly Gly Ser Ser Val His Leu Ser Asp Pro Val Ala Pro Ser Ser
 1 5 10 15
 Ala Gly Leu Tyr Phe Glu Pro Glu Pro Ile Ser Ser Thr Pro Asn Tyr
 20 25 30
 Leu Gln Arg Gly Glu Phe Xaa Ser Cys Val Ser Cys Glu Glu Asn Ser
 35 40 45
 Ser Cys Leu Asp Gln Ile Phe Asp Ser Tyr Leu Gln Thr Glu Met His
 50 55 60
 Pro Glu Pro Leu Leu Asn Ser Thr Gln Ser Ala Pro His His Phe Pro
 65 70 75 80
 Asp Ser Phe Gln Ala Thr Pro Phe Cys Phe Asn Gln Ser Leu Ile Pro
 85 90 95
 Gly Ser Pro Ser Asn Ser Ser Ile Leu Ser Gly Ser Leu Asp Tyr Ser
 100 105 110
 Tyr Ser Pro Val Gln Leu Pro Ser Tyr Ala Pro Glu Asn Tyr Asn Ser
 115 120 125
 Pro Ala Ser Leu Asp Thr Arg Thr Cys Gly Tyr Pro Pro Glu Asp His
 130 135 140

5284

Ser Tyr Gln His Leu Ser Ser His Ala Gln Tyr Ser Cys Phe Ser Ser
 145 150 155 160

Ala Thr Thr Ser Ile Cys Tyr Cys Ala Ser Cys Glu Ala Glu Asp Leu
 165 170 175

Asp Ala Leu Gln Ala Ala Glu Tyr Phe Tyr Pro Ser Thr Asp Cys Val
 180 185 190

Asp Phe Ala Pro Ser Ala Ala Ala Thr Ser Asp Phe Tyr Lys Arg Glu
 195 200 205

Thr Asn Cys Asp Ile Cys Tyr Ser
 210 215

<210> 6022

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6022

Ser Lys Arg Arg Asp Lys Lys Arg Gly Gly Val Gly Ser Arg Lys Gln
 1 5 10 15

Ser Leu Asn Phe Ser Arg Thr Gln Leu Ser Leu Arg Xaa Asn Phe Leu
 20 25 30

Leu Ser Leu Trp Asp Ala Ile Val Ile Phe Asn
 35 40

<210> 6023

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5285

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6023

Pro	Pro	Cys	Xaa	Leu	Arg	Cys	Val	Xaa	Glu	Thr	Gly	Ser	Asn	Thr	Thr
1				5					10					15	

His	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro
			20					25					30		

Gly	Ser	Thr	His	Ala	Ser	Glu	Ile	Ser	Trp	Pro	Tyr	Phe	Leu	Ser	Gly
			35				40					45			

Asn	Leu	Leu	Thr	Met	Met	Trp
	50					55

<210> 6024

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6024

Asp	Ala	Ile	Lys	Val	Lys	Glu	Tyr	Asn	Asn	Leu	Leu	Asn	Ala	Leu	Gln
1				5					10					15	

5286

Met Asp Ser Asp Glu Met Lys Lys Ile Leu Ala Glu Asn Ser Arg Lys
 20 25 30

Ile Xaa Val Leu Gln Val Asn Glu Lys Ser Xaa Ile Arg Gln Tyr Xaa
 35 40 45

Xaa Leu Val Glu Leu Glu Arg Gln Leu Xaa Lys Glu Asn Glu Lys Gln
 50 55 60

Lys Asn Glu Leu Leu Ser Met Glu Ala Glu Val Cys Glu Lys Ile Gly
 65 70 75 80

Cys Leu Gln

<210> 6025

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6025

His Val Xaa Asp Val Ile Leu Glu Val Asn Gly Tyr Pro Val Gly Gly
 1 5 10 15

Gln Asn Asp Leu Glu Arg Leu Gln Gln Leu Pro Glu Ala Glu Pro Pro
 20 25 30

Leu Cys Leu Lys Leu Ala Ala Arg Ser Leu Arg Gly Leu Glu Ala Trp
 35 40 45

Xaa Pro Pro Gly Ala Ala Glu Asp Trp Ala Leu Ala Ser Asp Leu Leu
 50 55 60

5287

<210> 6026

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6026

Gly	Ser	Ser	Ser	Leu	Ala	Gly	Trp	Leu	His	Xaa	Pro	Trp	Ala	Pro	Gln
1				5				10						15	

Ile	Ile	Lys	Ser	Thr	Phe	Ser	Val	Ser	Gly	Ile	Cys	Met	Thr	Ser	Leu
			20					25					30		

Glu	Val	Pro	Cys	Trp	Val	Val	Ile	Leu	Val	Ser	Asp	Gly	Thr	His	Leu
		35					40					45			

Asn	Leu	Lys	Tyr	Phe	Cys	Gln	Gly	Ser	Gly	Gly	Phe	Met	Ala	Cys	Ser
	50					55					60				

Ser	Pro	Ala	Leu	Leu	Gly	Arg	Leu	Gln	Arg	Cys	His	Leu	Ala	Leu	Ser
65					70					75					80

Pro	Lys	Asn	Phe	Glu	Thr	Gln	Pro	Gly	Ala	Xaa	Arg	Gly	Leu	Lys	Xaa
				85					90					95	

Ser	Xaa	Phe	Pro	Phe	Lys	Asn	Tyr	Gln	Lys	Ile	Arg	Pro
			100					105				

<210> 6027

<211> 146

5288

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6027

Arg	Asp	Glu	Asn	Thr	Met	Lys	Asn	Ile	Phe	Ser	Lys	Lys	Arg	Lys	Leu
1				5					10					15	

Glu	Val	Ala	Cys	Ser	Asp	Cys	Glu	Val	Glu	Val	Leu	Pro	Leu	Gly	Leu
			20					25					30		

Glu	Thr	His	Pro	Arg	Thr	Ala	Lys	Thr	Glu	Lys	Cys	Pro	Pro	Lys	Phe
		35					40					45			

Ser	Asn	Asn	Pro	Lys	Glu	Leu	Thr	Met	Glu	Thr	Lys	Tyr	Asp	Asn	Ile
	50					55					60				

Ser	Arg	Ile	Gln	Tyr	His	Ser	Val	Ile	Arg	Asp	Pro	Glu	Ser	Lys	Thr
65					70					75					80

Ala	Ile	Phe	Gln	His	Asn	Gly	Lys	Lys	Met	Glu	Phe	Val	Ser	Ser	Glu
				85					90					95	

Ser	Val	Thr	Xaa	Glu	Asp	Asn	Asp	Gly	Phe	Lys	Pro	Pro	Xaa	Glu	His
			100					105					110		

Leu	Asn	Ser	Lys	Thr	Lys	Gly	Ala	Gln	Lys	Asp	Ser	Ser	Ser	Asn	His
		115					120					125			

Val	Asp	Glu	Phe	Glu	Asp	Asn	Leu	Leu	Ile	Gly	Ile	Gln	Met	Trp	Xaa
	130						135					140			

Arg	Tyr
145	

5289

<210> 6028

<211> 222

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6028

Lys	Ala	Pro	Ala	Ser	Thr	Cys	Pro	Arg	Arg	Pro	Thr	Gly	Ala	Ala	Cys
1				5				10					15		

Cys	Val	Asn	Trp	Arg	Ser	Pro	Lys	Gly	Pro	Gly	Arg	Pro	Pro	Gly	Ser
		20						25					30		

Ala	Pro	Pro	Thr	Xaa	Ala	Gln	Arg	His	Pro	Leu	Cys	Ser	Arg	Asn	Gln
		35					40					45			

Pro	Pro	Thr	Leu	Pro	Arg	Thr	Arg	Pro	Gln	Ser	Pro	Ala	Ala	Pro	Ser
		50				55					60				

Thr	Pro	Thr	Cys	Gln	Pro	Ala	Gly	Ser	Ser	Ala	Leu	Trp	Ser	Pro	Ser
65					70					75					80

Ser	Thr	Cys	Leu	Pro	Ala	Pro	Ala	Trp	Val	Pro	Val	Pro	Pro	Ser	Pro
			85						90					95	

Arg	Thr	Trp	Thr	Met	Arg	Ala	Val	Ile	Lys	Pro	Arg	Leu	Lys	Met	Lys
			100						105				110		

Met	Arg	Met	Ser	Ser	Arg	Met	Lys	Thr	Arg	Met	Arg	Thr	Arg	Met	Arg
		115					120					125			

Met	Glu	Ser	Arg	Ala	Ser	Gln	Ser	Leu	Glu	Arg	Arg	Pro	Arg	Ser	Ala
	130					135					140				

Thr	Pro	Trp	Thr	Trp	Ala	Thr	Val	Thr	His	His	Glu	Val	Pro	Thr	Ser
145					150					155					160

His	Ser	Ile	Pro	Cys	Ser	Val	Arg	Val	Ala	Ala	His	His	Thr	Ser	Pro
				165					170					175	

Cys	Gln	Glu	Gln	Glu	Ser	Pro	Gln	Ala	Glu	Cys	Pro	Arg	Gly	Ala	Leu
			180					185					190		

5290

Leu Arg Leu Ser Arg Glu Pro Val Lys Glu Ile Glu Ile Lys Pro Val
 195 200 205

Leu Leu Gly His Arg Phe Ala Val Leu Lys Lys Lys Xaa Asn
 210 215 220

<210> 6029

<211> 49

<212> PRT

<213> Homo sapiens

<400> 6029

Phe Val Glu Val Gly Met Ile Trp Gln Ser Leu Lys Phe Ile Leu Gly
 1 5 10 15

Arg Arg Trp Gln Lys Ser Gly Val Tyr Gln Val Met Arg Phe Leu Leu
 20 25 30

Thr His Gln Pro Asn Phe Cys Ser Phe Cys Thr Ser Glu Met Lys Lys
 35 40 45

Arg

<210> 6030

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6030

Asp Thr Glu Ala Asp Val Leu Gly Leu Val Ala Ser Gly Thr Pro Asp
 1 5 10 15

Val Ala Arg Ala Met Thr His Thr Leu Leu Arg His Leu Ala Ala Arg
 20 25 30

Pro Pro Thr Gln Ala Gln His Gln His Gln Cys Pro Xaa Cys Leu Leu
 35 40 45

Pro Leu Pro Gly Val Leu Thr Gly Trp Gly Trp Val Trp Gln Lys Ala
 50 55 60

5291

Glu Leu Ser Glu Ala Trp Gly Gln Glu
65 70

<210> 6031

<211> 55

<212> PRT

<213> Homo sapiens

<400> 6031

Asn Asn Phe Tyr Ile Leu Tyr Phe Pro Thr Lys Gln Asn Arg Asp Gln
1 5 10 15

Tyr Ser His Leu Leu Ser Asp His Phe Leu Pro Tyr Gln Gly His Asn
20 25 30

Ser Phe Arg Glu Lys Tyr Phe Ser Gly Val Thr Lys Arg Ile Ala Lys
35 40 45

Glu Glu Lys Ser Thr Gln Glu
50 55

<210> 6032

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

5292

<400> 6032

```

Val Phe Arg Glu His Arg Xaa Ser Val Ile Cys Leu Glu Leu Val Asn
 1              5              10              15

Arg Leu Val Tyr Xaa Gly Ser Xaa Asp Arg Thr Val Lys Cys Trp Leu
          20              25              30

Ala Asp Thr Gly Glu Cys Val Xaa Thr Phe Thr Ala His Arg Arg Asn
          35              40              45

Val Ser Ala Leu Lys Tyr His Ala Gly Thr Leu Phe Thr Gly Ser Gly
          50              55              60

Asp Ala Cys Ala Arg Ala Phe Asp Ala Gln Ser Gly Glu Leu Arg Arg
 65              70              75              80

Val Phe Arg Gly His Thr Phe Ile Ile Asn Cys Ile Gln Val His Gly
          85              90              95

Gln Val Leu Tyr Thr Ala Ser His Asp Gly Ala Leu Arg Leu Trp Asp
          100              105              110

Val Arg Gly Leu Arg Gly Ala Pro Arg Ser Pro Pro Pro Met Arg Ser
          115              120              125

Leu Ser Arg Leu Phe Ser Asn Lys Val Gly Cys Ala Val Ala Pro Leu
          130              135              140

Gln Pro Ala
145

```

<210> 6033

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6033

```

Gly Asn Arg Ala Arg Leu His Leu Lys Lys Arg Lys Lys Asn Cys Asn
 1              5              10              15

Ser Tyr Thr Leu Ala Leu Leu Leu Tyr His Cys Val Ile Leu Lys Thr
          20              25              30

Thr Xaa Ile Tyr Tyr Thr Gly Thr Cys Leu Leu Ser Ile Ser Thr Thr

```

5293

35 40 45
 Lys Met Glu Ala Pro Thr Ala Ile Arg Leu Ile Ser Leu Pro Gly Pro
 50 55 60
 Ile Leu Ile Met Leu Leu
 65 70

<210> 6034

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6034

Glu His Leu Glu Arg Met Leu Gly Gln Ala Gly Glu Arg Arg Ala Asp
 1 5 10 15
 Val Tyr Val Gly Val Asp Val Phe Ala Arg Gly Asn Val Val Gly Gly
 20 25 30
 Arg Phe Asp Thr Asp Lys Ser Leu Glu Leu Ile Arg Lys His Gly Phe
 35 40 45
 Ser Val Ala Leu Phe Ala Pro Gly Trp Val Tyr Glu Cys Leu Glu Lys
 50 55 60
 Lys Asp Phe Phe Gln Asn Gln Asp Lys Phe Trp Gly Arg Leu Glu Arg
 65 70 75 80
 Tyr Leu Pro Thr His Ser Ile Cys Ser Leu Pro Phe Val Thr Ser Phe
 85 90 95
 Cys Leu Gly Met Gly Ala Arg Arg Val Cys Tyr Gly Gln Glu Glu Ala
 100 105 110
 Val Gly Pro Trp Tyr His Leu Ser Ala Gln Glu Ile Gln Pro Leu Phe
 115 120 125
 Gly Glu His Arg Leu Gly Xaa Asp Gly Arg Gly Trp Val Arg Thr His
 130 135 140
 Cys Cys Leu Glu Asp Ala Trp His Gly Gly Ser Ser Leu Leu Val Arg
 145 150 155 160

5294

Gly Val

<210> 6035

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6035

Lys	Tyr	Tyr	Thr	Cys	Glu	Thr	Asp	Xaa	Glu	Asn	Gln	Cys	Gly	Xaa	Gly
1				5				10					15		

Val	Val	His	Ile	Asn	Tyr	Leu	Xaa	Ser	Thr	Xaa	His	Lys	Ser	Gln	Ala
		20						25					30		

Cys	Lys	Ile	Ser	Gly	Leu	Ala	Pro	Glu	Arg	Gln	Ile	Pro	His	Asp	Leu
		35					40					45			

Thr	Asp	Met	Xaa	Xaa	Leu	Lys	Lys	Ser	Asn	Ser	Glu	Gln	Arg	Val	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5295

50

55

60

<210> 6036

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6036

Gly	Val	Leu	His	Phe	Cys	Gly	Lys	Ser	Pro	Phe	Trp	Arg	Ser	Ser	Thr
1				5					10					15	

Gly	Arg	Phe	Leu	Gly	Cys	Tyr	Asn	Gln	Asp	Phe	Ser	Thr	Thr	Thr	Leu
			20					25					30		

Leu	Val	Phe	Gly	Ala	Arg	Val	Ile	Leu	Cys	Xaa	Trp	Gly	Gly	Gln	Phe
		35					40					45			

Ile	Val	Gly	Cys	Phe	Thr	Ala	Ser	Ile	Pro	Leu	Ser	Tyr	Ser	Leu	Gln
	50					55				60					

Gly	Lys	Thr	Thr	Lys	Asn	Val	Pro	Arg	His	Xaa	Gln	Ile	Ser	Pro	Gly
65					70					75					80

Gly	Gln	Ser	Phe	Ile
				85

<210> 6037

<211> 214

<212> PRT

<213> Homo sapiens

<400> 6037

Leu	Ser	Leu	Arg	Asn	Ala	Lys	Tyr	Ser	Phe	Pro	Gln	Glu	Leu	Ile	Ser
1				5					10				15		

5296

Leu Phe Ser Met Thr Asp Leu Asn Asp Asn Ile Cys Lys Arg Tyr Ile
 20 25 30
 Lys Met Ile Thr Asn Ile Val Ile Leu Ser Leu Ile Ile Cys Ile Ser
 35 40 45
 Leu Ala Phe Trp Ile Ile Ser Met Thr Ala Ser Thr Tyr Tyr Gly Asn
 50 55 60
 Leu Arg Pro Ile Ser Pro Trp Arg Trp Leu Phe Ser Val Val Val Pro
 65 70 75 80
 Val Leu Ile Val Ser Asn Gly Leu Lys Lys Lys Ser Leu Asp His Ser
 85 90 95
 Gly Ala Leu Gly Gly Leu Val Val Gly Phe Ile Leu Thr Ile Ala Asn
 100 105 110
 Phe Ser Phe Phe Thr Ser Leu Leu Met Phe Phe Leu Ser Ser Ser Lys
 115 120 125
 Leu Thr Lys Trp Lys Gly Glu Val Lys Lys Arg Leu Asp Ser Glu Tyr
 130 135 140
 Lys Glu Gly Gly Gln Arg Asn Trp Val Gln Val Phe Cys Asn Gly Ala
 145 150 155 160
 Val Pro Thr Glu Leu Ala Leu Leu Tyr Met Ile Glu Asn Gly Pro Gly
 165 170 175
 Glu Ile Gln Ser Ile Phe Pro Ser Ser Thr Pro Leu Pro Gly Cys Val
 180 185 190
 Cys Leu Ser Trp Leu His Trp Pro Ala Leu Leu Glu Thr His Gly Leu
 195 200 205
 Gln Lys Leu Ala Gln Phe
 210

<210> 6038

<211> 65

<212> PRT

<213> Homo sapiens

<400> 6038

Phe Phe Tyr Asn Thr Lys Val Thr Thr Trp Asn Phe Lys Asp Asn Val
 1 5 10 15

5297

Met Cys Val Cys Glu Ile Tyr Ile His Ile Tyr Ile Tyr Phe Leu Lys
20 25 30

Glu Glu Lys Ile Pro Phe Cys Ser Thr Cys Ile Asn Ser Ser Phe Leu
35 40 45

Ile Ala Val Lys Trp Gln Leu Leu Ile Asn Tyr Cys Asp Cys Phe Lys
50 55 60

Ile
65

<210> 6039

<211> 55

<212> PRT

<213> Homo sapiens

<400> 6039

Lys Ala Gly Phe Arg Gln Ser Val His Phe Tyr Ser Lys Ile Gly Val
1 5 10 15

Ser Val Tyr Ile Tyr Leu Lys Leu Asn Arg Ser Asp Phe Tyr Phe Leu
20 25 30

Gly Tyr Ser Arg Ser Ile Leu Lys Leu Leu Phe Lys Ile Leu Lys Pro
35 40 45

His Phe Lys Ser Cys Arg Pro
50 55

<210> 6040

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6040

Gln Leu Gln Ile Asn Arg Tyr Thr Pro Tyr Thr Ile Thr Asn Thr Phe

5298

1 5 10 15
 Tyr Thr Val His Ile Ser Val His Gln His Tyr Phe Ile Tyr Thr Leu
 20 25 30
 Phe Xaa Xaa Ile Asn Ile Phe Leu Asn Trp Asp Tyr Cys Pro Tyr Ala
 35 40 45
 Leu Tyr Phe Leu Phe Gln
 50

<210> 6041

<211> 77

<212> PRT

<213> Homo sapiens

<400> 6041

Leu Leu Thr Thr Trp Val Lys Gly Lys Arg Gln Met Ala Ser Lys Pro
 1 5 10 15
 Leu Val Cys Leu Ser Ser Ser Gly Ser Glu Glu Ile Thr Ser Ala Phe
 20 25 30
 Leu Pro Glu Glu Phe Gly Val Phe Lys Gly Gly Trp Gly Gly Cys His
 35 40 45
 Phe Glu Asn Met Leu Leu Phe Leu Leu Ile Val Leu Arg Leu Ile Trp
 50 55 60
 Lys Gly Tyr Phe Phe Leu Ala Asn Thr Phe Trp Tyr Phe
 65 70 75

<210> 6042

<211> 218

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (202)

<223> Xaa equals any of the naturally occurring L-amino acids

5299

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6042

His	Ile	Glu	Met	Ala	Leu	Pro	Lys	Asp	Ala	Ile	Pro	Ser	Leu	Ser	Glu
1				5					10				15		

Cys	Gln	Cys	Gly	Ile	Cys	Met	Glu	Ile	Leu	Val	Glu	Pro	Val	Thr	Leu
			20					25					30		

Pro	Cys	Asn	His	Thr	Leu	Cys	Lys	Pro	Cys	Phe	Gln	Ser	Thr	Val	Glu
		35					40					45			

Lys	Ala	Ser	Leu	Cys	Cys	Pro	Phe	Cys	Arg	Arg	Arg	Val	Ser	Ser	Trp
	50					55					60				

Thr	Arg	Tyr	His	Thr	Arg	Arg	Asn	Ser	Leu	Val	Asn	Val	Glu	Leu	Trp
65					70					75					80

Thr	Ile	Ile	Gln	Lys	His	Tyr	Pro	Arg	Glu	Cys	Lys	Leu	Arg	Ala	Ser
				85					90					95	

Gly	Gln	Glu	Ser	Glu	Glu	Val	Ala	Asp	Asp	Tyr	Gln	Pro	Val	Arg	Leu
			100					105					110		

Leu	Ser	Lys	Pro	Gly	Glu	Leu	Arg	Arg	Glu	Tyr	Glu	Glu	Glu	Ile	Ser
		115					120					125			

Lys	Val	Ala	Ala	Xaa	Arg	Arg	Ala	Ser	Glu	Glu	Glu	Glu	Asn	Lys	Ala
	130					135						140			

Ser	Glu	Glu	Tyr	Ile	Gln	Arg	Leu	Leu	Ala	Glu	Glu	Glu	Glu	Glu	Glu
145					150					155					160

Lys	Arg	Gln	Ala	Glu	Lys	Arg	Arg	Arg	Ala	Met	Glu	Glu	Gln	Leu	Lys
			165						170					175	

Ser	Asp	Glu	Glu	Leu	Ala	Arg	Lys	Leu	Ser	Ile	Asp	Ile	Asn	Asn	Phe
		180						185					190		

Cys	Glu	Gly	Ser	Ile	Ser	Ala	Ser	Pro	Xaa	Glu	Phe	Gln	Lys	Asn	Xaa
		195					200					205			

Val	Pro	Val	Thr	Pro	Lys	Ser	Xaa	Lys	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5300

210

215

<210> 6043

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6043

Trp	Pro	Gly	Xaa	Trp	Thr	Leu	Ala	Thr	Glu	Leu	Leu	His	Arg	Ala	Trp
1				5					10					15	

Cys	Pro	Gln	Ala	Ser	Arg	Leu	Gly	Leu	Glu	Pro	Gly	Met	Ser	Pro	Gly
			20					25					30		

Ser	Ala	Leu	Ala	Leu	Leu	Trp	Ser	Leu	Pro	Ala	Ser	Asp	Leu	Gly	Arg
			35					40				45			

Ser	Val	Ile	Ala	Gly	Leu	Trp	Pro	His	Thr	Gly	Val	Leu	Ile	His	Leu
	50					55					60				

Glu	Thr	Ser	Gln	Ser	Phe	Leu	Gln	Gly	Gln	Leu	Thr	Lys	Ser	Ile	Phe
65					70					75					80

Pro	Leu	Cys	Cys	Thr	Ser	Leu	Phe	Cys	Val	Cys	Val	Val	Thr	Val	Gly
				85					90					95	

Gly	Gly	Arg	Val	Gly	Ser	Thr	Phe	Val	Ala
			100					105	

<210> 6044

<211> 67

<212> PRT

<213> Homo sapiens

<400> 6044

Ile	Pro	Ala	Pro	Leu	Tyr	His	Leu	Phe	Leu	Pro	Leu	Lys	Gly	Lys	Thr
1				5					10					15	

Phe	His	Pro	Ser	Lys	Leu	Thr	Ala	Phe	Ser	Val	Gly	Phe	Ser	Tyr	Ala
				20				25					30		

Leu	His	Thr	Leu	Asp	Leu	Thr	Cys	Arg	Tyr	Ser	Ser	Pro	Leu	Ala	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5301

35 40 45
 Ser Ile Cys Met Trp Tyr Phe Ser Phe Pro Ser Val Asp Ile Ser Tyr
 50 55 60
 Met Ile Phe
 65

<210> 6045

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6045

His Val Val Tyr Pro Arg Lys Leu Gly Arg Pro Leu Pro Ser Gln Ala
 1 5 10 15

Leu Arg Asn Asn Phe Ser Cys Leu Pro Met Leu Ile Ile Leu Val Phe
 20 25 30

Asn Ser Leu Ser Asp Leu Gln Asn Val Phe Ile Asn Ser Ser Cys Thr
 35 40 45

Trp Leu Asp Lys Leu Ser Cys Leu Cys Trp Xaa Xaa Asn Asp Tyr Leu
 50 55 60

Leu Ile Tyr Phe Gly Xaa Asn Ile Xaa Lys Asn Ile Asn Lys
 65 70 75

5302

<210> 6046

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6046

Pro Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro
 1 5 10 15

Gly Ser Thr His Ala Ser Gly Arg Leu Ala Gly Arg Gly Ala Glu Ser
 20 25 30

Gly Leu Pro Arg Arg Gly Thr Ser Tyr Ser Val Gly Glu Ala Met Glu
 35 40 45

Glu Leu Leu Pro Asp Gly Gln Ile Trp Ala Asn Met Asp Pro Glu Glu
 50 55 60

Arg Met Leu Ala Ala Ala Thr Ala Phe Thr His Ile Cys Ala Gly Gln
 65 70 75 80

Gly Glu Gly Asp Val Arg Arg Glu Ala Gln Ser Ile Gln Tyr Asp Pro
 85 90 95

Tyr Ser Lys Ala Ser Xaa Ala Pro Gly Lys Arg Pro Ala Leu Pro Val
 100 105 110

Gln Leu Gln Tyr Pro His Val Glu Ser Asn Val Pro Ser Glu Thr Val
 115 120 125

Ser Glu Ala Ser Gln Arg Leu Arg Lys Pro Val Met Lys Arg Lys Val
 130 135 140

Leu Arg Arg Lys Pro Asp Gly Glu Val Leu Val Thr Asp Glu Ser Ile
 145 150 155 160

Ile Lys

<210> 6047

<211> 48

<212> PRT

5303

<213> Homo sapiens

<400> 6047

Val	Leu	Cys	Val	Cys	Val	Cys	Val	Cys	Ala	His	Met	Cys	Thr
1				5				10				15	
Leu	Val	Leu	Val	Pro	Asn	Ser	Cys	Ser	Pro	Gly	Asp	Pro	Leu
			20				25					30	Val
Glu	Arg	Pro	Pro	Pro	Arg	Trp	Ser	Thr	Ser	Phe	Val	Pro	Leu
		35					40					45	Val

<210> 6048

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6048

Asn	Val	Lys	Lys	His	Ile	Tyr	Leu	Tyr	Ile	Asp	Phe	Lys	Gln	Asn	Thr
1				5					10					15	
Leu	Asn	Thr	Leu	Leu	Ser	Val	Arg	Leu	Met	Xaa	Ala	Glu	Glu	Phe	Tyr
			20					25					30		
Trp	Val	Glu	Lys	Thr	Val	Ile	Tyr	Ile	Val	Leu	Asn	Val	Phe	Ile	Ile
		35					40					45			
Asn	Gly	Cys	Ser	Ile	Ile	Ser	Ile	Leu	Phe	Ser	Ala	Ser	Asn	Gly	Met
	50					55					60				
Ile	Ile	Arg	His	Phe	Ser	Leu	Leu	Ile	Ser						
65						70									

<210> 6049

<211> 45

<212> PRT

<213> Homo sapiens

<400> 6049

5304

Phe Ile Lys Trp Val Ile Ile His Thr Asn Ala Lys Leu Ser Ile Tyr
 1 5 10 15

Tyr Ile Lys Ile Phe Asn Val Leu Ala Asn Phe Gly Lys Ala Lys Thr
 20 25 30

Thr Ser Val Asn Lys Asp Gly Phe Leu Val Ile Cys His
 35 40 45

<210> 6050

<211> 62

<212> PRT

<213> Homo sapiens

<400> 6050

Gly Glu Thr Ser Gly Leu Leu Cys Ser Gly Lys Thr Arg Asp Ala His
 1 5 10 15

Tyr Cys Glu Gly Pro Leu Lys Ser Gly Leu Leu Asn Gly Phe Leu Leu
 20 25 30

Ile Ser Trp Val His Ala Arg Met Met Gly Leu Asp Ala Val Gly Lys
 35 40 45

Arg Arg Cys Lys Asn Asn Lys Gln Tyr Ile Pro Ser Lys Lys
 50 55 60

<210> 6051

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6051

Gln Xaa Cys Lys Asn Ile Gln Lys Ser Arg Thr Ile Gly Leu Ser Phe
 1 5 10 15

Gln Ser Lys Ser Lys Xaa Ser Cys Phe His Phe Thr Arg Leu Trp Lys

5305

20 25 30

Pro Met Asp Val Ile Val Lys Cys Ile Cys Ile Thr Leu Thr Phe Leu

35 40 45

Lys Cys Phe Glu Leu Ile Lys Asn Ser Thr Met

50 55

```
<210> 6052
<211> 51
<212> PRT
<213> Homo sapiens
```

```

<400> 6052
Asp Thr Phe Asn Pro Val Asn Phe Phe Ser Val Ser Asp Lys Val Lys
  1                               10                      15

Phe Ser Ser Arg Val Gln Asn Thr Phe Ile Tyr Phe Phe Val Phe Leu
  20                          25                      30

Lys Val Gln Arg Thr Thr Leu Ile Asn Leu Ser Phe Pro Ala Thr Trp
  35                          40                      45

Asn Ser Thr
  50

```

```
<210> 6053
<211> 89
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 6053

Lys Leu Leu Ser Pro Leu Asn Gly Leu Gly Pro Leu Val Xaa Ser His
1 5 10 15

Cys Ser Ile Arg Val Ser Leu His Leu Trp Ala Leu Leu Ser Cys Asp
20 25 30

Ser Arg Asn Val Leu Leu Ile His Phe Met Val Asp His Pro Leu Ala
35 40 45

Leu Ser Thr Leu Pro Leu Phe Ser Ser Ala Pro His Arg Ile Ile Ser

5306

50 55 60
Ile Val Ser Val Ser Ser Leu Leu Ile Leu Tyr Ser Ala Cys Ser Asp
65 70 75 80
Leu Pro Val Asn Pro Leu Val Asn Leu
85

<210> 6054
<211> 92
<212> PRT
<213> Homo sapiens

<400> 6054
Ile Ser Gly Asp Lys His Leu Lys Lys Val Gln Leu Thr Leu Glu Gln
1 5 10 15
His Glu Ser Glu Leu Cys Val Gly Leu Leu Thr Gly Arg Phe Phe Phe
20 25 30
Ser Ile Ser Ile Leu Glu Asn Phe Leu Glu Ile Phe Gly Asn Leu Lys
35 40 45
Lys Leu Ala Asn Tyr Ser Leu Glu Ile Ser Glu Val Lys Lys Lys Leu
50 55 60
Val Cys His Arg Cys Ile Lys Leu Thr Met Ser Ile Leu Val His Phe
65 70 75 80
Ile Ile Tyr Tyr His Lys Ile Tyr Thr Ser Phe Phe
85 90

<210> 6055
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

5307

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6055
 Thr Glu Lys Glu Met Lys Ile Asp Gln Xaa Glu Lys Gly Leu Val Xaa
 1 5 10 15
 Lys Gly Xaa Lys Gly Arg Ser Leu Trp Asn Xaa Xaa Xaa Leu Lys Asn
 20 25 30
 Glu Val Thr Pro Asn Asn Arg Thr Gly Gln Ser Glu Met Thr Trp Leu
 35 40 45

<210> 6056
 <211> 55
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6056
 Lys Ser Ser Ile Xaa Pro Pro Leu Ile Phe Pro Ala Thr Asp Ile Asp
 1 5 10 15
 Arg Ile Leu Arg Ala Gly Phe Thr Leu Gln Glu Ala Leu Gly Ala Leu
 20 25 30

5308

His Arg Val Gly Gly Asn Ala Asp Leu Ala Leu Leu Val Leu Leu Ala

Lys Asn Ile Val Val Pro Thr
50 55

<210> 6057

<211> 56

<212> PRT

<213> Homo sapiens

<400> 6057

Ser Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn His Leu Asn Pro Gly
1 5 10 15

Gly Arg Gly Cys Ser Glu Pro Arg Ser His His Cys Thr Pro Ala Trp
20 25 30

Ala Thr Arg Ala Lys Leu His Leu Lys Lys Thr His Ile Phe Met Asn
35 40 45

Ile Ser His Gln Gln Cys Arg Lys
50 55

<210> 6058

$\langle 211 \rangle$ 113

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6058

Glu Glu Thr Trp Leu Leu Ala Leu Ile Asn Glu Glu Ser His Phe Pro
1 5 10 15

Gln Ala Thr Asp Ser Thr Leu Leu Glu Lys Leu His Ser Gln His Ala
20 25 30

Asn Asn His Phe Tyr Val Lys Pro Arg Val Ala Val Asn Asn Phe Gly
35 40 45

Val Lys His Tyr Ala Gly Glu Val Gln Tyr Asp Val Arg Gly Ile Leu
50 55 60

5309

Glu Lys Asn Arg Asp Thr Phe Arg Asp Asp Leu Leu Asn Leu Leu Arg
 65 70 75 80

Glu Ser Arg Phe Asp Phe Ile Tyr Asp Leu Phe Glu His Val Ser Lys
 85 90 95

Pro Xaa Gln Pro Gly Tyr Leu Glu Met Trp Glu Pro Thr Ser Ala Ala
 100 105 110

Tyr

<210> 6059

<211> 44

<212> PRT

<213> Homo sapiens

<400> 6059

Ala Phe Ile Tyr Leu Asn Phe Glu Phe Leu Asn Phe Leu Val Lys Asn
 1 5 10 15

Gln Asp Lys His Thr Ser Leu Gly Leu Cys Arg Val Arg Ile Lys Thr
 20 25 30

Ser Leu Ala Gly Asp Arg Asn Phe Ser Thr Pro Leu
 35 40

<210> 6060

<211> 59

<212> PRT

<213> Homo sapiens

<400> 6060

Ala Asp Tyr Pro Thr Val Gly Thr Lys Leu Asp Ser Tyr Phe Val Gly
 1 5 10 15

Leu Ser Phe Leu Ile Leu Thr Ile Tyr His Pro Ile Leu Cys Pro Val
 20 25 30

Ile Phe Phe Lys Ser Leu Phe Asn Val Leu Gln His Cys Asp Cys Met
 35 40 45

Leu Ala Thr Leu Leu Leu Glu Cys Ser Phe Ser
 50 55

5310

<210> 6061

<211> 51

<212> PRT

<213> Homo sapiens

<400> 6061

Trp Val Asn Leu Arg Phe Gln Ser Gln Lys Leu Gln Val Val Val Thr
1 5 10 15

Phe Leu Ser Ala Trp Ile Lys Pro Leu Lys Cys Gly Lys Cys Cys Gln
20 25 30

Ser Arg Ala Ile Ser Leu Leu Ser Ser Met Arg Gly Ile Glu Thr Lys
35 40 45

Gln Gln Phe
50

<210> 6062

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6062

Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
1 5 10 15

Xaa Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
20 25 30

Arg Gly Gly Val Ser Ser Leu Lys Leu Arg Thr Ile Phe Xaa Val Ala
35 40 45

5311

Lys Leu His Xaa Met Met Leu Pro Leu Leu Ser Val Leu Ser Gly Pro
 50 55 60

Leu Phe Thr Ser Thr Arg Tyr Pro Ser
 65 70

<210> 6063

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6063

Arg Gly Asn Arg Cys Leu Thr Lys Arg Glu Ala Ile Arg Gly Ile Asp
 1 5 10 15

Glu Ala Gln Leu Lys Ser Ser Leu Ala Ser Ser Ser Leu Ala Ser Val
 20 25 30

His Leu Lys Asn Lys Ser Trp Leu Thr Val Gly Ser Thr Arg Phe Glu
 35 40 45

Ile Arg Trp Leu Tyr Phe Xaa Phe Phe Gly Ile
 50 55

<210> 6064

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6064

Thr Xaa Met Phe Gln Gln His Arg Phe Ile Cys Asn His Lys Ser Asp
 1 5 10 15

Thr Phe Arg Met Thr Lys Pro Gln Lys Asn Ala Ile Phe Lys Ala Glu
 20 25 30

Thr Val Leu Phe Trp Ala Lys Trp Asn Pro Cys Phe Ser Asp Thr Val

5312

35 40 45
 Arg Val Glu Ile Lys Asp Thr Glu Asn Leu Pro Leu Gly Asn His Asn
 50 55 60
 Tyr Leu
 65

<210> 6065

<211> 46

<212> PRT

<213> Homo sapiens

<400> 6065

Lys Arg Gln Leu Glu Asn Val Met His Gly Val Phe Lys Lys Thr Lys
 1 5 10 15

Cys Ser Phe Tyr Leu Thr Asp Asn Ser Phe Tyr Thr Leu Tyr Asn Lys
 20 25 30

Ile Ser Thr Arg His Leu Val Gly Lys Val Lys Lys Lys Lys
 35 40 45

<210> 6066

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6066

Arg Gly Leu Pro Ser Ile Pro Glu Asn Xaa Asn Leu Xaa Glu Tyr Phe
 1 5 10 15

5313

Val Ala Val Asp Val Asn Asn Met Leu His Leu Tyr Ala Ser Met Leu
 20 25 30

Tyr Glu Arg Arg Ile Leu Ile Ile Cys Ser Lys Leu Ser Thr Leu Thr
 35 40 45

Ala Cys Ile His Gly Ser Ala Ala Met Leu Tyr Pro Met Tyr Trp Gln
 50 55 60

His Val Tyr Ile Pro Val Leu Pro Pro His Leu Xaa Asp Tyr Cys Cys
 65 70 75 80

Ala Pro Met Pro Tyr Leu Ile Gly Ile His Leu Ser Leu Met Glu Lys
 85 90 95

Val Arg Asn Met Ala Leu Asp Asp Val Val Ile Leu Asn Val Asp Thr
 100 105 110

Asn Thr Leu Glu Thr Pro Phe Asp Asp Leu Gln Ser Leu Pro Asn Asp
 115 120 125

Val Glu Glu Ser Ile Val Ile Gln
 130 135

<210> 6067

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6067

His Phe Ala Ala Tyr Gly Asn Val Cys Val Leu Phe Ile Leu Met Asn
 1 5 10 15

Cys Ala Met Thr His Lys Pro Lys Gln Cys Gln Leu Gln Leu Asn Leu
 20 25 30

Gly Arg Asn Pro Trp Cys Phe Xaa Phe Phe Phe Asp Ala Gly Glu Arg
 35 40 45

Leu His Phe Val Thr Asn Leu Leu Pro Asn Arg Lys Ile Tyr Phe Leu
 50 55 60

Ser Asp Arg His His Thr Arg Cys Leu Leu
 65 70

5314

<210> 6068

<211> 86

<212> PRT

<213> Homo sapiens

<400> 6068

Gly Lys Pro Gly Ala Pro Leu Gln Pro Trp Asp Asn Leu Arg Ile Pro
1 5 10 15

Pro Glu Ala Ser Ser Val Met Asp Ala Val Leu Arg Ile Thr Cys Cys
20 25 30

Pro Gly Val Thr Cys Phe His Leu Pro Ala His Gln Pro Ser Ala His
35 40 45

Leu Thr Cys Leu Pro Met Asp Trp Gly Leu Pro Gly Pro Pro Pro Tyr
50 55 60

Val Asn Leu His Phe Leu Phe Lys Asn Gln Glu Lys Lys Arg Phe Glu
65 70 75 80

Asp Pro Lys Ser Cys Gln
85

<210> 6069

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6069

Leu Glu Gly Arg Ala Leu Leu Gln Val Arg Val Gly Val Leu Ser Glu

5315

1 5 10 15
 Ser Cys Val Leu Gly Leu Val Ser Phe Pro Cys Pro Cys Ser Gly Ser
 20 25 30
 Val Arg Gln Ile Gly Arg Leu Cys Ser Arg Pro Gln Glu Cys Xaa Ser
 35 40 45
 Pro Xaa Leu Ala Gln Tyr Ile Gly Thr Cys Gly Phe Tyr Phe Val Phe
 50 55 60
 Asp Val Pro Asp Arg Asn Arg Ala Arg Gly Thr Xaa Lys Thr Thr Val
 65 70 75 80
 Gly Ser

<210> 6070
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 6070
 Ser Lys Glu Arg Val Asp Gly Leu Lys Arg Leu Ala Ser Val Ser Val
 1 5 10 15
 Ala Gly Ser His Leu Ala Ser Asn Trp Lys Gln Asn Phe Trp Gly Val
 20 25 30
 Leu Phe Cys Ile Arg Val Cys Phe Met Leu Ser Lys Thr Tyr Phe Arg
 35 40 45
 Ser Lys
 50

<210> 6071
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6071
 Trp Lys Leu Val Gly Pro Pro Gly Leu Thr Gly Ile Arg Thr Xaa Gly

5316

1 5 10 15
 Lys Asn Phe Val Arg Pro Gln Lys His Cys Thr Val Asn Ile Leu Glu
 20 25 30
 Lys Val Cys Gln Thr Gly Ile Asn Asp Ser Met Ile Phe Asn Asp Cys
 35 40 45
 Lys Leu Arg
 50

<210> 6072

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6072

Lys Ser Met Gly Glu Glu Asn Val Lys Met Leu Ser Asp Ile Arg Cys
 1 5 10 15

Met Lys Ser His Asn Ile Lys Ala Ile Ser Tyr Phe Xaa Arg Gly Ile
 20 25 30

Phe Leu Leu Pro Leu Leu Val Leu Asp Arg Phe Tyr Lys Met Xaa Asn
 35 40 45

Lys Ile Trp Xaa
 50

<210> 6073

<211> 102

<212> PRT

5317

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6073

Glu	Ser	Ser	Ile	Cys	Cys	Ser	Phe	Leu	Gln	Leu	Tyr	Phe	Cys	Ser	Ile
1				5					10					15	

Ser	Trp	Phe	His	Ser	Leu	Leu	Phe	Trp	Asp	Phe	Val	Phe	Arg	Ser	Ala
			20					25					30		

Tyr	Phe	Leu	Tyr	Ile	Cys	Met	Gln	Met	Lys	Glu	Gly	Ser	Leu	Tyr	Trp
		35					40					45			

Cys	Xaa	Phe	Ser	Leu	Gln	Leu	Leu	Val	Xaa	Gly	Asp	Leu	Leu	Glu	Lys
	50					55					60				

Ile	Leu	Pro	Leu	Lys	Gly	Glu	Asn	Arg	Pro	Leu	Cys	Val	Tyr	Leu	Tyr
65					70					75				80	

Arg	Asp	Val	Tyr	Met	Gly	Cys	Gly	Gly	Thr	Leu	Leu	Asn	Val	Asn	Leu
				85					90					95	

Pro	Cys	Gln	Trp	Lys	Asp
				100	

<210> 6074

<211> 37

<212> PRT

<213> Homo sapiens

<400> 6074

Leu	Phe	Gly	Ala	Val	Arg	Lys	Lys	Lys	Lys	Lys	Lys	Ile	Ala	Ile	Ser
1				5					10					15	

Ser	Cys	Val	His	Asn	Ser	Arg	Tyr	Asn	Ile	Gln	Ser	Leu	Glu	Gly	Pro
			20					25					30		

Phe	Trp	Ala	Leu	Asp
				35

5318

<210> 6075

<211> 37

<212> PRT

<213> Homo sapiens

<400> 6075

Tyr	Ser	Phe	Asp	Asn	Thr	Arg	Val	Ser	Glu	Ile	Pro	Asp	Thr	Ser	Val
1				5					10					15	

Gln	Asn	Ala	Met	Asp	Leu	Leu	Phe	Tyr	Ser	Cys	Gln	Pro	Phe	Ser	Ile
			20					25						30	

Pro	Ile	Gln	Lys	Arg
			35	

<210> 6076

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6076

Thr	Leu	Ser	Asp	Val	Gly	Cys	Pro	His	Gln	Asn	Ile	Cys	Thr	Ser	Cys
1				5					10					15	

Phe	Cys	Pro	Thr	Leu	Glu	Ala	Ala	Glu	Lys	Lys	Gly	Lys	Gln	Gly	Ser
			20					25					30		

Arg	Asn	Leu	Cys	Tyr	Val	Phe	Ser	Pro	Leu	Tyr	Leu	Phe	Leu	Trp	Xaa
		35					40					45			

Val	Val	Gln	Glu	Ile	Leu	Phe	Ser	Cys	Ser	Lys	Leu	Ile	Lys	Arg	Ser
		50				55					60				

Asn	Ile	Arg	Asn	Tyr	Asp	Asn	Ser	Leu
							70	

<210> 6077

<211> 49

<212> PRT

<213> Homo sapiens

5319

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6077

Tyr	Arg	Gly	Arg	Glu	Ile	Ser	Lys	Val	Phe	Thr	Ser	Ser	Leu	Lys	Gly
1				5				10					15		

Val	Gly	Ser	Asn	Ser	Ser	Ser	Pro	Cys	Tyr	Phe	Gly	Val	Ser	His	Tyr
			20				25					30			

Ser	Leu	Thr	His	Gln	Lys	Ile	His	Ser	Phe	Lys	Cys	Leu	Xaa	Val	Leu
		35				40						45			

Ser

<210> 6078

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

5320

<400> 6078

Pro Asn Ala Asp Gln Lys Tyr Ser Thr Asp Lys Met Xaa Glu Pro Xaa
 1 5 10 15

Val Tyr Val Lys Ser Leu Tyr Thr Xaa Xaa Gly Pro Asp Xaa Tyr Phe
 20 25 30

Leu Leu Leu Ile Gly Gly
 35

<210> 6079

<211> 303

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6079

Ala Phe Ser Ser Ser Glu Asp Asn Lys Xaa Gly Lys Arg Xaa Arg Thr
 1 5 10 15

Asn Ser Arg Ser Thr Pro Thr Thr Pro Gln Gly Lys Pro Glu Thr Thr
 20 25 30

Phe Leu Asp Gln Gly Cys Ser Ser Pro Val Leu Ile Asp Cys Pro His
 35 40 45

Pro Asn Cys Asn Lys Lys Tyr Lys His Ile Asn Gly Leu Arg Tyr His
 50 55 60

Gln Ala His Ala His Leu Asp Pro Glu Asn Lys Leu Glu Phe Glu Pro

5321

65		70		75		80
Asp Ser Glu Asp Lys Ile Ser Asp Cys Glu Glu Gly Leu Ser Asn Val						
	85		90		95	
Ala Leu Glu Cys Ser Glu Pro Ser Thr Ser Val Ser Ala Tyr Asp Gln						
	100		105		110	
Leu Lys Ala Pro Ala Xaa Pro Gly Ala Gly Asn Pro Pro Gly Thr Pro						
	115		120		125	
Lys Gly Lys Arg Glu Leu Met Ser Asn Gly Pro Gly Ser Ile Ile Gly						
	130		135		140	
Ala Lys Xaa Gly Lys Asn Ser Gly Lys Lys Lys Gly Leu Asn Asn Glu						
	145		150		155	160
Leu Asn Asn Leu Pro Val Ile Ser Asn Met Thr Ala Ala Leu Asp Ser						
	165		170		175	
Cys Ser Ala Ala Asp Gly Ser Leu Ala Ala Glu Met Pro Lys Leu Glu						
	180		185		190	
Ala Glu Gly Leu Ile Asp Lys Lys Asn Leu Gly Asp Lys Glu Lys Gly						
	195		200		205	
Lys Lys Ala Asn Asn Cys Lys Thr Asp Lys Asn Leu Ser Lys Leu Lys						
	210		215		220	
Ser Ala Arg Pro Ile Ala Pro Ala Pro Ala Pro Thr Pro Pro Gln Leu						
	225		230		235	240
Ile Ala Ile Pro Thr Ala Thr Phe Thr Thr Thr Thr Thr Gly Thr Ile						
	245		250		255	
Pro Gly Leu Pro Ser Leu Thr Thr Thr Val Val Gln Ala Thr Pro Lys						
	260		265		270	
Ser Pro Pro Leu Lys Pro Ile Gln Pro Lys Pro Thr Ile Met Gly Glu						
	275		280		285	
Pro Ile Thr Val Asn Pro Ala Leu Val Ser Leu Lys Asp Lys Lys						
	290		295		300	

<210> 6080

<211> 61

<212> PRT

<213> Homo sapiens

5322

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6080

Arg Leu Ser Gln His Pro Tyr His Thr Val Gln Lys Ser Glu Leu Gln
1 5 10 15

Arg Leu Cys Ser Val Ser Trp Ser Thr Ser Lys Phe Val Val Arg Lys
20 25 30

Val Arg Cys Arg Asn Leu Arg Leu Gln Arg Leu Cys Ser Val Ser Trp
35 40 45

Xaa Thr Ser Thr Phe Phe Val Val Asn Ile Gln Ser His
50 55 60

<210> 6081

<211> 77

<212> PRT

<213> Homo sapiens

<400> 6081

Pro Asn Pro Ala Leu Thr Ala Pro Gln Arg Ile Pro Val Ala Ala Gln
1 5 10 15

Pro Pro Ala Pro Pro Ser Pro Glu Leu Arg Arg Glu Pro Gln Gly Gly
20 25 30

Ala Met Arg Thr Gly Val Trp Trp Ser Thr Tyr Gly Ser Trp Pro Ala
35 40 45

Ser Gly Ala Val Ala Gly Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro
50 55 60

His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg
65 70 75

<210> 6082

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

5323

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6082

Thr	Ala	Gly	Pro	Ser	His	Pro	Trp	Ile	Ser	Ser	Cys	Thr	Thr	Leu	Lys
1				5					10					15	

Leu	Glu	Gln	His	Gln	Xaa	Leu	Pro	Arg	Ser	Pro	Pro	Ala	Gln	Pro	Ser
			20					25					30		

Xaa	Gly	Asn	Val	Ser	Ser	Ser	Pro	Gly	Leu	Gln	Leu
		35					40				

<210> 6083

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6083

Ala	Glu	Gly	His	Glu	Arg	Glu	Arg	Ser	Xaa	Glu	Ser	Gly	Glu	Glu	Asp
1				5					10					15	

Ser	Ser	Leu	Thr	Asp	Glu	Pro	Arg	Arg	Ala	Cys	Leu	Ser	His	Pro	Ser
			20					25					30		

Leu	Cys	Gln	Leu	Leu	Gly	Gly	Gln	Xaa	Pro	Ala	Leu	Arg	Asn	Ser	Pro
		35					40					45			

Val	Leu	Gly	Glu
			50

<210> 6084

<211> 78

5324

<212> PRT

<213> Homo sapiens

<400> 6084

Leu Val Leu His Tyr Phe Pro Arg Glu Phe Leu Gln Val Asn Val His
 1 5 10 15

Pro Phe Asp Leu Glu Ala Asp Ser Gln Phe Cys Leu Phe Gly Lys Ser
 20 25 30

Ala Ser Glu Leu Asn Phe Leu Val Cys Lys Met Gly Leu Arg Lys Cys
 35 40 45

Gly Leu Leu Phe Gln Arg Leu Leu Leu Gly Trp Asn Glu Ile Met Cys
 50 55 60

Val Thr Lys Ala Leu Glu Thr Phe Trp Asn Leu Lys Ala Ile
 65 70 75

<210> 6085

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6085

Ala Leu Ser Val Cys Asp Leu Leu Lys Asn Lys Phe Phe Val Lys Glu
 1 5 10 15

Asn Thr Ser Leu Lys Asn Glu Lys Ala Ile Leu Ser Leu Ile Asn Leu
 20 25 30

Ile Gln Asp Pro Ser Ile Ile Asn Leu Thr Val Leu Xaa Phe Thr Glu
 35 40 45

Ile Ser Xaa Asn Gln Ser Gln Lys Ile Pro Pro Cys Thr Asn Leu Leu
 50 55 60

Pro Leu His
 65

5325

<210> 6086

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6086

Leu	Arg	Ile	Met	Thr	Pro	Leu	Val	Ser	Cys	Gly	Met	Gly	Arg	Ile	Phe
1				5					10					15	

Tyr	Phe	Phe	Cys	Thr	Phe	Thr	Trp	Arg	Leu	Phe	Leu	Leu	Arg	Xaa	Phe
			20					25					30		

Ile	Met	Gly	Phe	Lys	Ala	Leu	His	Leu	Pro	Asn	Xaa	Gly	Lys	Cys	Xaa
		35					40					45			

Lys	Tyr	Cys	Ile	Phe	Tyr	Xaa	Phe	Gly	Pro	Lys	Gly	Tyr
	50					55					60	

<210> 6087

<211> 50

<212> PRT

<213> Homo sapiens

<400> 6087

Asn	Glu	Glu	Cys	Asn	Pro	Phe	Tyr	Lys	Met	Tyr	Thr	Leu	Cys	Tyr	Leu
1				5					10					15	

5326

Leu Leu Asn Phe Gly Leu Val Ile Pro Thr Asp Ala Lys Phe Phe Leu
 20 25 30
 Gln Ser Thr Glu Ile Ile Gln Ile Phe Leu His Cys Gln Gln Asp Glu
 35 40 45
 Ile Val
 50

<210> 6088

<211> 141

<212> PRT

<213> Homo sapiens

<400> 6088

Trp Lys Lys Tyr Phe Lys Thr Phe Ile Asn Gly Lys Val Val Trp Gly
 1 5 10 15
 Ser Trp Phe Asp His Val Lys Gly Trp Trp Glu Met Lys Asp Arg His
 20 25 30
 Gln Ile Leu Phe Leu Phe Tyr Glu Asp Ile Lys Arg Asp Pro Lys His
 35 40 45
 Glu Ile Arg Lys Val Met Gln Phe Met Gly Lys Lys Val Asp Glu Thr
 50 55 60
 Val Leu Asp Lys Ile Val Gln Glu Thr Ser Phe Glu Lys Met Lys Glu
 65 70 75 80
 Asn Pro Met Thr Asn Arg Ser Thr Val Ser Lys Ser Ile Leu Asp Gln
 85 90 95
 Ser Ile Ser Ser Phe Met Arg Lys Gly Thr Val Gly Asp Trp Lys Asn
 100 105 110
 His Phe Thr Val Ala Gln Asn Glu Arg Phe Asp Glu Ile Tyr Arg Arg
 115 120 125
 Lys Met Glu Gly Thr Ser Ile Asn Phe Cys Met Glu Leu
 130 135 140

<210> 6089

<211> 65

<212> PRT

<213> Homo sapiens

5327

<400> 6089

Asn Lys His Leu Glu Ala Ile Phe Gly Leu Ile Lys Ile Val Leu Gly
 1 5 10 15

Arg Ala Trp Trp Leu Thr Pro Ala Ile Pro Ala Leu Trp Glu Ala Glu
 20 25 30

Asp Ser Gly Phe Leu Glu Leu Arg Ser Trp Glu Thr Ser Leu Gly Asn
 35 40 45

Met Val Ile Pro Val Cys Leu Phe Lys Ile Lys Lys Ile Asn Glu Val
 50 55 60

Met
 65

<210> 6090

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6090

Val Ala Lys Gly Leu Leu Ser His Leu Cys Pro Pro Xaa Ile Leu Lys
 1 5 10 15

Ala Arg Ser Leu Glu Phe Glu Leu Cys Pro His Met Pro Pro Arg His
 20 25 30

Gln Gln Ser Lys Met Lys Ser Leu His Cys Leu Ser Val Asp Pro Thr
 35 40 45

Leu Ser Pro His Trp Arg Gly Arg Gly Gly Gly Leu Arg Met Ser Ser
 50 55 60

Ser Cys Pro Gly Cys Asn Met Val Lys Asp Glu Arg Lys Glu Met Leu
 65 70 75 80

Gly Ala Ser Leu His
 85

<210> 6091

5328

<211> 90

<212> PRT

<213> Homo sapiens

<400> 6091

Gln Glu Pro Ser Ser Arg Val Ser Cys Phe Lys Ala Pro Tyr Pro Phe
 1 5 10 15

Leu Arg Val Thr Asn Thr Cys Ala Arg Ser Leu Pro Phe Pro Ser Ser
 20 25 30

Pro Cys Ile Trp Leu Ile Thr Gly Gln Leu Pro Ala Ser Leu Gln Phe
 35 40 45

Gly Arg Trp Val Gly Asn Asp His His Ser Pro Arg Ser Pro Asp Gly
 50 55 60

Leu Val Phe Arg Ala Leu His Arg His Leu Gln Gln Ala Pro Ala Arg
 65 70 75 80

Pro Glu Val Ile Leu Arg Arg Asp Gly Ser
 85 90

<210> 6092

<211> 45

<212> PRT

<213> Homo sapiens

<400> 6092

Leu Gln Leu Trp Ile Ala Tyr Phe Glu Lys Gly Glu Leu Gln Ile Leu
 1 5 10 15

Pro Lys Asp Gly Glu Lys His Ile Lys Lys Ile Pro Thr Phe Arg Asn
 20 25 30

Ser Phe Gln Gln Leu Leu Leu Glu Ile Phe Lys Leu Ile
 35 40 45

<210> 6093

<211> 49

<212> PRT

<213> Homo sapiens

<400> 6093

Ile Ser Asp Lys Phe Pro Gly Asn Ala Asp Phe Thr Val Gln Gly Pro
 1 5 10 15

5329

His Phe Gly Asn His Thr Asn Arg Asn Leu Met Gln Thr Gln Gly Thr
 20 25 30

Tyr Gln Lys Ile Phe Asn Gln Val Ile Leu His Asp Lys Gly Gln Gln
 35 40 45

Cys

<210> 6094

<211> 58

<212> PRT

<213> Homo sapiens

<400> 6094

Thr Gly Phe His His Val Ser Gln Ala Ser Leu Glu Leu Leu Thr Ser
 1 5 10 15

Gly Asp Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Ile
 20 25 30

Ser His Arg Ala Trp Pro Asn Asn Trp Asn Ile Phe Ile Met Lys Met
 35 40 45

Ser Ser Ala Leu Pro Lys Glu Thr Thr Asn
 50 55

<210> 6095

<211> 89

<212> PRT

<213> Homo sapiens

<400> 6095

Cys Lys His Cys Ile Ser Tyr Val Glu Met Val Lys Asp Asp Tyr Glu
 1 5 10 15

Asp Asp Ser His Val Phe Arg Lys Pro Ala Asn Asp Ile Thr Ser Gln
 20 25 30

Leu Glu Ile Asn Phe Gly Asn Leu Pro Arg Pro Gly Arg Gly Ala Arg
 35 40 45

Gly Gly Thr Arg Gly Gly Arg Gly Arg Ile Arg Arg Ala Glu Asn Tyr
 50 55 60

Gly Pro Arg Ala Glu Val Val Met Gln Asp Val Ala Pro Asn Pro Asp
 65 70 75 80

5330

Asp Pro Glu Asp Phe Pro Ala Leu Ser
85

<210> 6096

<211> 32

<212> PRT

<213> Homo sapiens

<400> 6096

Lys Leu Lys Met Leu Ala Glu His Phe Val Val Leu Gln Ala Leu Leu
1 5 10 15

Ile Phe His Cys Ser Thr Cys Cys Trp Gln Ser Asn Phe Ser Glu Leu
20 25 30

<210> 6097

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6097

Ala Glu His Cys Ser Pro Ile Leu Val Leu Ile Trp Lys Phe Leu Gly
1 5 10 15

His Tyr Ala Asp Lys Lys Thr Arg Thr Pro Gly Ala Arg Lys Thr Cys
20 25 30

Cys Lys Ser Leu Val Cys Ser Tyr Glu Cys Pro Ser Thr Leu Glu Glu
35 40 45

Ala Leu Asp Ser Pro Val Pro Ser Phe Leu Gly Ala Arg Val Pro Xaa
50 55 60

Cys
65

5331

<210> 6098
 <211> 47
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6098
 Phe Tyr Cys Tyr Ser Glu Glu Ser Gln Leu Thr Asp Leu Asp Asp Phe
 1 5 10 15
 Lys Asp Ala Val Gln Met Arg Glu Gly Cys Lys Tyr Cys Phe Ser Ile
 20 25 30
 Xaa Glu Leu Thr Val Ala Lys Val Gly Tyr Ser Ile Glu Ser Leu
 35 40 45

<210> 6099
 <211> 165
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (149)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (153)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6099
 Ile Arg His Glu Glu Thr Ser Ile Ala Leu Gln Asp Asn Tyr Glu Ile
 1 5 10 15
 Arg Tyr Thr Ala Ile Ser Val Ile Lys Asn Leu Leu Ile Lys His Ala
 20 25 30
 Phe Asp Thr Arg Tyr Gln His Lys Asn Gln Gln Ala Lys Ile Ala Gln
 35 40 45
 Leu Tyr Leu Pro Phe Val Gly Leu Leu Leu Glu Asn Ile Gln Arg Leu
 50 55 60
 Ala Gly Arg Asp Thr Leu Tyr Ser Cys Ala Ala Met Pro Asn Ser Ala

5332

65						70						75						80
Ser	Arg	Asp	Glu	Phe	Pro	Cys	Gly	Phe	Thr	Ser	Pro	Ala	Asn	Arg	Gly			
				85					90					95				
Ser	Leu	Ser	Thr	Asp	Lys	Asp	Thr	Ala	Tyr	Gly	Ser	Phe	Gln	Asn	Gly			
				100					105					110				
His	Gly	Ile	Lys	Arg	Glu	Asp	Ser	Arg	Gly	Ser	Leu	Phe	Pro	Glu	Gly			
				115					120					125				
Ala	Thr	Gly	Phe	Pro	Asp	Gln	Gly	Asn	Thr	Gly	Glu	Asn	Thr	Arg	Gln			
				130					135					140				
Asn	Ser	Thr	Arg	Xaa	Ile	Val	Ser	Xaa	Tyr	Asn	Arg	Leu	Asp	Gln	Tyr			
				145					150					155				
Glu	Ile	Thr	Thr	Ser														
					165													

<210> 6100

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6100

Gln Arg Gly Arg Trp Lys Gln Cys Ser Trp Lys Leu Leu Leu Ser Pro
1 5 10 15

Leu Ser His His Ser Arg His Leu Leu Gln Ala Gly Arg His Val Ser
20 25 30

Val Arg Phe Leu Pro Gly Asp Ile Arg Ser Pro Xaa Ile Gln Ile Lys
35 40 45

Cys Asn Ile Leu Gln Thr Ala Leu Leu Arg Glu Ile Ser
50 55 60

<210> 6101

<211> 156

<212> PRT

<213> Homo sapiens

5333

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6101

Trp	Ile	Pro	Arg	Ala	Ser	Gly	Ile	Arg	His	Glu	His	Leu	Arg	Ser	His
1				5				10					15		

Thr	Gln	Glu	Lys	Val	Val	Ala	Cys	Pro	Thr	Cys	Gly	Gly	Met	Phe	Ala
			20					25					30		

Asn	Asn	Thr	Lys	Phe	Leu	Asp	His	Ile	Arg	Arg	Gln	Thr	Ser	Leu	Asp
		35					40					45			

Gln	Gln	His	Phe	Gln	Cys	Ser	His	Cys	Ser	Lys	Arg	Phe	Ala	Thr	Glu
	50					55					60				

Arg	Leu	Leu	Arg	Asp	His	Met	Arg	Asn	His	Val	Asn	His	Tyr	Lys	Cys
65					70				75						80

Pro	Leu	Cys	Asp	Met	Thr	Cys	Pro	Leu	Pro	Ser	Xaa	Leu	Arg	Asn	His
				85					90					95	

Met	Arg	Phe	Arg	His	Ser	Glu	Asp	Arg	Pro	Phe	Lys	Cys	Xaa	Cys	Cys
		100						105					110		

Asp	Tyr	Ser	Cys	Lys	Asn	Leu	Ile	Asp	Leu	Gln	Lys	His	Leu	Asp	Thr
		115					120					125			

His	Ser	Glu	Glu	Pro	Ala	Tyr	Arg	Cys	Asp	Phe	Glu	Asn	Cys	Thr	Ser
	130					135					140				

Val	Xaa	Asp	Pro	Leu	Leu	Tyr	Gln	Val	Pro	Leu	Pro
145					150					155	

<210> 6102

<211> 65

5334

<212> PRT

<213> Homo sapiens

<400> 6102

Phe Cys Leu Leu Leu Ala Gly Glu Glu Ala Met Ser Trp Tyr Ser Gln
 1 5 10 15

Trp Ser Gln Asp Pro Glu Cys Val Ala Lys Pro Tyr Thr Ala Phe His
 20 25 30

Gly Leu Phe Leu Gly Ala Arg Val Gly Gly Asp Met Val Leu Gly Ser
 35 40 45

Asn Leu Pro Cys Asn Arg Trp Arg Ala Val Phe Ser Met Ala Pro Ala
 50 55 60

Val

65

<210> 6103

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6103

Leu Gln Val Thr Leu Ser Ser Trp Pro Xaa Ile Ala Pro Arg Leu Phe
 1 5 10 15

Leu Pro His Trp Gly Gln Ser Phe Pro Trp Thr Lys Glu Arg Xaa Leu
 20 25 30

Gln Pro Phe Phe Lys Ser Leu Gly Pro Gly Pro Trp His Gln His His
 35 40 45

5335

Xaa Ser Leu Tyr Ser Ile His Gln Lys His Leu Lys Pro Thr Gln Ile
 50 55 60

Cys Ser Met Gly Ser Ile His Val
 65 70

<210> 6104

<211> 137

<212> PRT

<213> Homo sapiens

<400> 6104

Val Tyr Lys Tyr Leu Phe Phe Lys Arg Arg Cys Cys Ala Cys Glu Thr
 1 5 10 15

Ile Leu Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Leu Val Thr Ala
 20 25 30

Lys Asp Arg Glu Pro Phe His Phe Gly His Thr Gly Leu Leu Ser Arg
 35 40 45

Ser His Phe Ser Ser Trp Leu Leu Lys Ile Thr Ala Ser Pro Val Pro
 50 55 60

Ser Trp Arg Ser Ser Arg Gly Arg Ala Asp Phe Ser Pro Thr Gly Gly
 65 70 75 80

Thr Met Trp Gly Ser Glu Gly Trp Glu Gly Asp Phe Pro Leu Glu Trp
 85 90 95

Trp Ser Cys Trp Gly Leu Ile Ser Arg Asp Pro Lys Gly Gly Leu Cys
 100 105 110

Arg Arg Phe His Ile Gly Gly Ala Leu Ser Leu Ala Ala Val Arg Val
 115 120 125

Gly Pro Gly Cys Gly Val Gln Thr Ala
 130 135

<210> 6105

<211> 65

<212> PRT

<213> Homo sapiens

<400> 6105

Gly Asn Ser Arg Val Asp Pro Arg Val Arg Arg Asn Val Thr Arg Val
 1 5 10 15

5336

Arg Gly Ser Tyr Leu Tyr Ile Gly Phe Pro Ala Glu Asn Arg Pro Leu
 20 25 30

Leu Tyr Arg Phe Trp Val His Asn Leu Ala Leu Leu Val Asn Pro Arg
 35 40 45

Asp Leu Ser Asp Pro Pro Pro Pro Val Phe Phe Leu Phe Leu Phe Leu
 50 55 60

Phe
 65

<210> 6106

<211> 50

<212> PRT

<213> Homo sapiens

<400> 6106

Tyr Tyr Lys Ser Tyr Cys Thr His Phe Val Leu Glu Lys Asn Thr Glu
 1 5 10 15

Ala Val Ala Gln Thr Leu Phe Asn Ile Arg Glu Phe Ile Leu Glu Lys
 20 25 30

Asn Pro Ala Asn Val Met Asn Leu Glu Lys His Phe Phe Ser Lys Thr
 35 40 45

Thr Ala
 50

<210> 6107

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6107

5337

Val Asp Arg Ala Ile Ser Ile Thr Leu Arg Pro Leu Trp Val Ile Gly
 1 5 10 15

Ala Asp Lys Val Pro Cys Ile Ala Asp Glu Ile Ser Pro Ser Trp Thr
 20 25 30

Phe Pro Arg Asn Gly Pro Gly Val Ser Ser Asn Leu Ser Xaa Xaa Ile
 35 40 45

Thr Cys Leu Glu Ile Thr Leu Glu Tyr Val Ser Tyr Lys Ala Arg Ser
 50 55 60

His Gly Asn
 65

<210> 6108

<211> 47

<212> PRT

<213> Homo sapiens

<400> 6108

Thr Arg Glu Arg Arg Gly Gly Asn Met Lys Val Asn Leu Asn Asn Phe
 1 5 10 15

Cys Asn Thr Ser Tyr Leu Gln Thr Ile Gly Phe Met Leu Leu His Ser
 20 25 30

Arg Cys Asp Leu Ser Tyr Val Ser Asp Arg Phe Tyr Glu Leu Phe
 35 40 45

<210> 6109

<211> 122

<212> PRT

<213> Homo sapiens

<400> 6109

Gly Pro Ala Lys Gly Gly Lys Lys Lys Lys Asp Pro Asn Ala Pro Lys
 1 5 10 15

Arg Pro Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys
 20 25 30

Ile Lys Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys
 35 40 45

Leu Gly Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr
 50 55 60

5338

Ile Thr Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala
 65 70 75 80

Asp Tyr Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys
 85 90 95

Val Ala Arg Lys Lys Val Glu Glu Glu Asp Glu Glu Glu Glu Glu Glu
 100 105 110

Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu
 115 120

<210> 6110

<211> 82

<212> PRT

<213> Homo sapiens

<400> 6110

Val Asp Phe Leu Phe Ala Ile Asn Gln Ala Lys Val Asn Ala Ile Ile
 1 5 10 15

Ser Arg Phe Met Val Asn Lys Phe Glu Val Trp Ile Asn Leu Ser His
 20 25 30

Ile Phe Tyr Cys Ser Leu Val Lys Lys Gly Thr Arg Lys Lys Ile Ser
 35 40 45

Ser Ser Leu Val Leu Ser Gln Cys Gly Asp Cys Arg Lys Leu Thr Met
 50 55 60

Pro Ala Cys Val Asn Val Trp Leu Thr Val Lys Ala Ser Phe Leu Ala
 65 70 75 80

Ala Cys

<210> 6111

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids